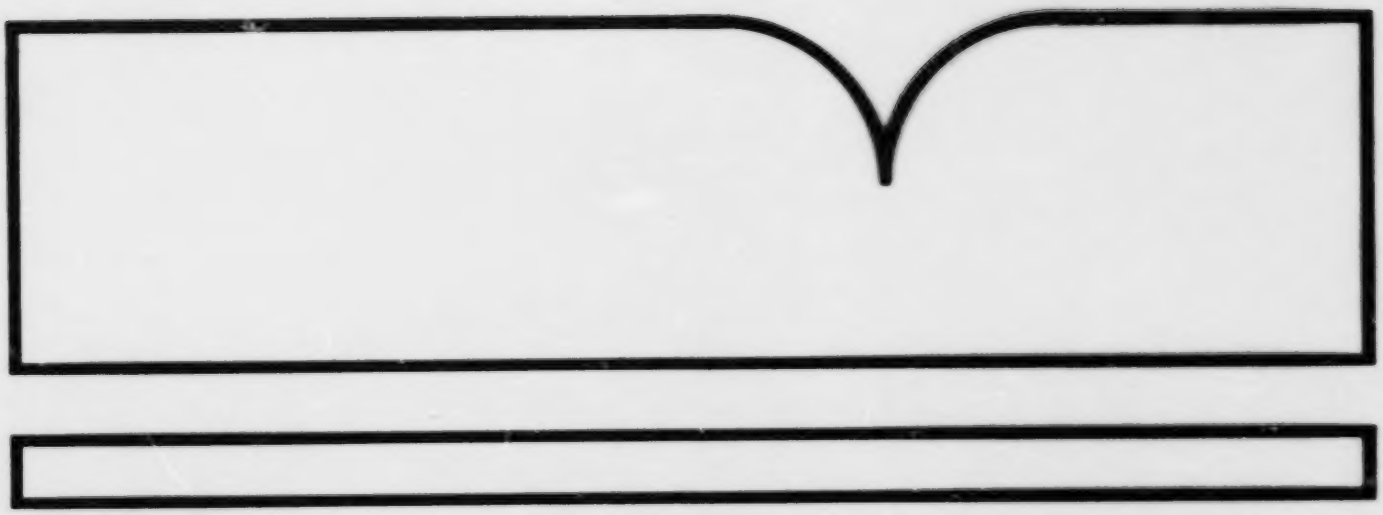
PB81-110199

Water Quality Trends in Region VIII (1979 Data)

(U.S.) Environmental Protection Agency
Denver, CO

Oct 80



U.S. Department of Commerce
National Technical Information Service
NTIS.

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA - 908/2-80-001	2.
3. RECIPIENT'S ACCESSION NO. PB81 110199	
4. TITLE AND SUBTITLE Water Quality Trends in Region VIII (1979 Data) U.S. Environmental Protection Agency	5. REPORT DATE October 1980 6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Thomas A. Entzminger, Richard Sotiros, W. T. Willingham	8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS U.S. Environmental Protection Agency Surveillance And Analysis Division 1860 Lincoln Street Denver, Colorado 80295	10. PROGRAM ELEMENT NO. 11. CONTRACT/GRANT NO.
12. SPONSORING AGENCY NAME AND ADDRESS Same as Box 9	13. TYPE OF REPORT AND PERIOD COVERED Final 14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES

16. ABSTRACT

Water quality trends and status for the calendar year 1979 were determined for the six states in Region VIII. These states include Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming. Data resident in the EPA national data bank (STORET) were analyzed.

Statistical tests which detect significant differences between two populations were utilized to show trends in water quality. The status and severity of stream pollutants were determined by comparing observed parameter concentrations to state Water Quality Standards or recognized criteria.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Water Quality Water Quality Index	Colorado STORET Montana North Dakota South Dakota Utah Wyoming	

18. DISTRIBUTION STATEMENT Release to public	19. SECURITY CLASS *(This Report)* Unclassified	21. NO. OF PAGES
	20. SECURITY CLASS *(This page)* Unclassified	22. PRICE

EPA Form 2220-1 (Rev. 4-77) PREVIOUS EDITION IS OBSOLETE

A

United States
Environmental Protection
Agency

Region 8
1860 Lincoln Street
Denver, Colorado 80295

EPA-908/2-80-001
October, 1980

Surveillance and Analysis Division Data Analysis Branch

PB81-110199

Water Quality Trends in Region VIII

1979 Data

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

EPA - 908/2-80-001

U.S. Environmental Protection Agency

WATER QUALITY TRENDS

IN REGION VIII

(1979 DATA)

Data Analysis Branch
Surveillance and Analysis Division
Denver, Colorado
October 1980

DISCLAIMER

This report has been reviewed by the Surveillance and Analysis Division, U.S. Environmental Protection Agency Region VIII, and approved for publication. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

Document is available to the public through the National Technical Information Service, Springfield, Virginia 22161.

ABSTRACT

Water quality trends and status for the calendar year 1979 were determined for the six states in Region VIII. These states include Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming. Data resident in the EPA national data bank (STORET) were analyzed.

Statistical tests which detect significant differences between two populations were utilized to show trends in water quality. The status and severity of stream pollutants were determined by comparing observed parameter concentrations to state Water Quality Standards or recognized criteria.

TABLE OF CONTENTS

	Page
Abstract	i
Table of Contents	ii
List of Figures	iv
List of Tables	v

SECTION I

Introduction	3
Summary and Conclusions	4
Analytical Procedures	6
Water Quality Standards	11

SECTION II

REGIONAL WATER QUALITY SUMMARY

Regional Overview of Water Quality	17
A Summary of Parameter Groups Significantly Exceeding Criteria	17
Fecal Coliform Bacteria	18
Nitrogen	20
Phosphorus	22
Total Dissolved Solids (TDS)	24
Suspended Sediment	26
Trace Elements	28
Un-ionized Ammonia	30

SECTION III

	Page
STATE WATER QUALITY REPORTS.	32
Colorado.	33
Montana	59
North Dakota.	77
South Dakota.	85
Utah.	98
Wyoming	108

APPENDIX

State Water Quality Standards or Other Criteria Used in the Stream Quality Analysis	123

LIST OF FIGURES

Figures		Page
1.	Stations where Fecal Coliform Bacteria concentrations were at least 85 percent higher than standards for at least one month during 1979	19
2.	Stations where Nitrogen concentrations were at least 85 percent higher than standards/criteria for at least one month during 1979	21
3.	Stations where Phosphorus concentrations were at least 85 percent higher than criteria for at least one month during 1979.	23
4.	Stations where Total Dissolved Solids concentrations were at least 85 percent higher than criteria for one month during 1979.	25
5.	Stations where Suspended Sediment concentrations were at least 85 percent higher than standards/criteria for one month or more during 1979	27
6.	Stations where one or more observed Cyanide or Trace Element concentrations were detected to be at least 85 percent higher than standards/criteria	29

LIST OF TABLES

Table		Page
	COLORADO	
1.	Ranking of Critical Water Quality Stations by Pollutant Group.	33
2.	Table of Stations where Water Quality Concentrations Exceed Criteria.	35
3.	Water Quality Trend Table.	54
	MONTANA	
4.	Ranking of Critical Water Quality Stations by Pollutant Group.	59
5.	Table of Stations where Water Quality Concentrations Exceed Criteria.	61
6.	Water Quality Trend Table.	74
	NORTH DAKOTA	
7.	Ranking of Critical Water Quality Stations by Pollutant Group.	77
8.	Table of Stations where Water Quality Concentrations Exceed Criteria.	79
9.	Water Quality Trend Table.	83

LIST OF TABLES (CONTINUED)

Table		Page
	SOUTH DAKOTA	
10.	Ranking of Critical Water Quality Stations by Pollutant Group.	85
11.	Table of Stations where Water Quality Concentrations Exceed Criteria.	87
12.	Water Quality Trend Table.	96
	UTAH	
13.	Ranking of Critical Water Quality Stations by Pollutant Group.	98
14.	Table of Stations where Water Quality Concentrations Exceed Criteria.	100
15.	Water Quality Trend Table.	107
	WYOMING	
16.	Ranking of Critical Water Quality Stations by Pollutant Group.	108
17.	Table of Stations where Water Quality Concentrations Exceed Criteria.	110
18.	Water Quality Trend Table.	120

SECTION I

INTRODUCTION

Water quality monitoring activities have increased substantially in Region VIII over the past few years both in scope and frequency. These increases are due to public demand for accurate information about harmful pollutants in the environment and to the passage of Federal Legislation, namely, the Clean Water Act, 1979. To fulfill the requirements of these legislative mandates Federal and State agencies have planned and developed extensive monitoring networks which have generated a mass of environmental quality data.

The purpose of this report is to present useful analytical summaries for Region VIII of the Environmental Protection Agency utilizing environmental quality data resident in the water data storage and retrieval system (STORET). Quality status and trends for streams have been determined from observed measurements over successive time periods.

Preceding page blank

SUMMARY AND CONCLUSIONS

Trend analyses (1975-1978 vs. 1979) of all pertinent water quality data available in the STORET system for Region VIII indicates that 305 of 774 stations processed experienced significant changes (improvement or degradation) for at least one parameter group. Of those stations which exhibited significant trends and which were also found to have concentrations generally considered at critical levels during the period 1975-78, 131 were found to have improved and 232 were found to have degraded.

The changes in quality that could be mostly attributed to the affects of man, as indicated by the stations where high fecal coliform bacteria concentrations are present, were observed at the stations listed below:

Significant Degradation

Arkansas R nr Nepesta, CO
Uncompahagre R at Delta, CO
Arikaree R nr Wray, CO
Left Hand Cr nr Niwot, CO
Boulder Cr at Boulder - Weld County Line, CO

Big Sioux R nr Canton, SD
Big Sioux R nr Hudson, SD

Colorado R at Lees Ferry, AZ

Significant Improvement

Missouri R nr Schmidt, ND

Big Sioux R abv Watertown, SD

N Platte R blw Casper, WY

For the non-point sources of pollution, where total dissolved solids concentrations have been determined to be at critical levels, degradation occurred at 34 stations in the region and improvements were noted at 20 stations.

The section of this report entitled "Regional Summary" discusses in more detail the findings with regard to specific pollutant groups.

ANALYTICAL PROCEDURES

Water quality data (1975-1979) for 885 active monitoring stations in the six States of Region VIII were retrieved from STORET (EPA's computerized water quality data base) and screened through computerized trending techniques. Forty-six STORET water quality parameters which fall in the general categories of bacteria, nutrients, dissolved solids, suspended solids, aesthetics, and inorganic toxicants were selected for this trend study and were analyzed in a two step process. First, to describe pollution severity, each observed water quality observation was compared to a state standard or criterion and averaged on a monthly basis. The ratio of the number of criteria exceedences to the total number of observations resulted in a probability of exceedence statistic for each parameter. Ranking of the critical stations could then be accomplished by selecting the highest statistical values. Secondly, to determine pollution trends, the 15th, 50th (median) and 85th percentile values for two time periods were compared for each parameter with sufficient data. A standard statistical test, requiring at least six observations for a parameter in each time period was used to test for a significant difference between the two time periods. Significant changes in the 50th percentile measurements are generally indicative of overall changes in concentrations, while significant changes in the 85th percentile measurement (15th percentile for dissolved oxygen) are generally indicative of changes during critical periods. The procedures for determining improvement or degradation is described in the trend analysis section.

Severity Analysis

Each observed data value was compared to its respective water quality standard or to some recognized criterion based on water quality use. The standards or criteria used in the analysis are included in the appendix. Only the data values that were higher than standards/criteria levels were reported. The Table of Stations where Water Quality Concentrations Exceed Criteria contains the symbolic representation of those values that were categorized between standard and 15 percent over, 15-85 percent above, and greater than 85 percent above the standards/criteria levels. Also, included in the tables is the probability of exceedence statistic which is a function of the frequency of criteria violations.

Trend Analysis

The statistical test ("The Median Test," Practical Nonparametric Statistics, W.J. Conover, John Wiley & Sons, Inc., New York, 1971, pages 167-172.) that was used to analyze water quality trends is a nonparametric technique for testing the hypothesis that random samples from two or more populations have the same median. The test is a special application of a chi-square contingency table test with fixed marginal totals. The same test can be used against other percentiles than the 50th but the discussion here describes only the median.

Given k populations each with a random sample of size n_1, i=1,2---k, a test statistic can be constructed to test the hypothesis:

H_0: all k populations have the same median.

H_A: at least two populations have different medians.

The test statistic is computed from the 2xk contingency table:

Sample	1	2	3	. . . k	Total
Median*	O_{11}	O_{12}	O_{13}	. . . O_{1k}	a
Median*	O_{21}	O_{22}	O_{23}	. . . O_{2k}	b
Total	n_1	n_2	n_3	. . . n_k	N

$$T = \frac{N^2}{ab} \sum_{i=1}^{c} \frac{\left(O_{1i} - \frac{n_i a}{N}\right)^2}{n_i}$$

* Refers to overall median of the combined samples.

The test for the statistic assumes:

The samples are random.

The samples are independent of each other.

The measurement scale is ordinal.

If all populations have the same median, they have the same probability of an observation exceeding the median.

A large sample approximation is used to approximate T. The critical region of approximate size d corresponds to values of T greater than $x_1-\alpha$ the $(1-\alpha)$ quantile of a chi-square random variable with k-1 degrees of freedom. If T exceeds $x_i\alpha$ reject H_0; otherwise accept H_0. The author notes that the approximation may not be satisfactory if more than 20% of the n_i are less than 10, or if any of the n_i are less than 2. It further qualifies this rule of thumb for larger numbers of samples k.

The test was applied to each pollutant parameter at every station in the Region not only for the median but also the 15th, and 85th percentiles. Data observed during the years 1975 through 1977 comprise one test population and data from the year 1978 made up the other population. Each sample was required to have at least six observations. This technique made it possible to detect statistically significant differences between the two time periods.

The following procedures were used to determine if the observed significant differences represented an improvement or a degradation:

Examine the 15th and 50th percentile for dissolved oxygen - for all other parameters examine the 85th and 50th percentile.

If a significant difference between two time periods for either of the percentile statistics exists and both percentile statistics decrease from the first time period to the second, designate this as improvement. (For oxygen this is a degradation).

If a significant difference between two time periods for either of the percentile statistics exists and both percentile statistics increase from the first time period to the second, designate this as degradation. (For dissolved oxygen this is an improvement).

It was assumed that the samples were random and independent of one another. Given that these data are time series data, taken at irregular intervals, affected by seasonal cycles, etc., certain modifications of this technique might be advisable in future applications.

WATER QUALITY STANDARDS

Section 303(c) of the Clean Water Act and attendant regulations and guidelines require states to review and revise their water quality standards at least once every three years. Water quality standards are an essential part of the State water quality management program. State water quality standards:

- Publicly define the State's water quality objectives, and hence form the basis of State and Areawide 208 planning and State Program Plans;

- Serve as the basis for determining National Pollution Discharge Elimination System (NPDES) permit effluent limitation for pollutants not specifically addressed in the effluent guidelines, or secondary treatment standards or for pollutants for which effluent guidelines are not stringent enough to protect desired uses;

- Serve as a basis for judgement in other water quality related programs including the priority system for Section 201 Construction Grants, water quality inventories, control of toxic substances, thermal discharges, and dredge and fill activities;

- Serve as a basis for evaluating and, where necessary, modifying best management practices for control of nonpoint sources;

- Contain the State's antidegradation policy.

State water quality standards consists of three basic elements. These are designated beneficial use(s), criteria which are numeric and narrative, and an antidegradation policy.

States are encouraged to classify all surface waters for existing and potential future beneficial uses. Beneficial uses can include drinking water supply, navigation, agricultural, industrial, recreation and aquatic and terrestrial life protection. The U.S. Environmental Protection Agency strongly encourages states to classify all surface waters for aquatic life use and recreation in and on the water, wherever attainable.

Water quality standards contain the States' policy on antidegradation. Antidegradation policies indicate that:

- Existing instream beneficial uses must be maintained and protected;

- Existing high quality water must be maintained at existing high quality unless the State decides to allow limited degradation where economically or socially justified. If limited degradation is allowed, it cannot result in violation of water quality criteria which describe the base levels necessary to sustain the national water quality goal of protection and propagation of fish, shellfish and wildlife and recreation in and on the water;

- o In all cases, water which constitute an outstanding national resource must be maintained and protected.

Water quality criteria specify concentrations of water constituents which, if not exceeded, are expected to support the applicable use designation to which a stream or lake is assigned. Such criteria are derived from scientific data obtained from laboratory or in situ observations which depict an organisms responses to a defined stimulus or material under identifiable or regulated environmental conditions for a specified time period. They are intended not only to protect essential and significant life in water, as well as the direct users of water, but also to protect life that is dependent on life in water for its existence, or that may consume intentionally or unintentionally any edible portion of such life.

The water quality criteria used to develop this report derive from several sources, the principal source being the State water quality standards. In these cases where existing State water quality standards were parametrically limited, other criteria references were utilized and are identified as such within this report (see Appendix). These criteria references include the "Red Book," "Blue Book," "Green Book," Drinking Water Regulations and the draft criteria document for the 65 NRDC Toxics. It should be noted that the values extracted from those references are only guidelines and cannot be considered as standards. They simply provide a point of reference about which the relative water quality for a particular station or change therein can be judged. An exceedence of a criterion should not be

construed to imply that a given beneficial use is being impaired. This type of demonstration can only be accomplished through intensive investigations. Conversely, some States have, through intensive research, established water quality standards for certain parameters which require levels lower than those used in this report. This is especially true of nutrients. The values for the nitrogen and phosphorus series used in the report are only very rough approximations of the conditions which might be indicative of a nutrient enriched environment. The U.S. Environmental Protection Agency strongly advocates the use of site-specific limnological surveys to establish nutrient standards.

The criteria for public water supplies derive from the Interim Primary Drinking Water Regulations. These regulations indicate that the criteria apply at the end of the tap. This report has, however, used them to approximate the quality of raw water sources classified as public water supplies.

SECTION II

REGIONAL WATER QUALITY SUMMARY

REGIONAL OVERVIEW OF WATER QUALITY

A Summary of Parameter Groups Significantly Exceeding Criteria

The regional map displays that appear in this section describe the more significant problem areas identified through computer analysis of each parameter group for monitoring stations with 1979 data. The observed data were compared to State water quality standards or recognized criteria and if the values were greater than standards/criteria then the probability of exceedence was calculated and reported. The maps illustrate where concentrations exceeded standards/criteria by more than 85 percent for at least one month during 1979. These maps were generated from the Table of Stations where Water Quality Concentrations Exceed Criteria in the section titled, "State Reports." It should be recognized that even though problems may exist in areas where insufficient data were collected, no problem condition was reported. Since few occurrences of a critical nature were noted for dissolved oxygen, no maps are presented to describe this group.

Fecal Coliform Bacteria

The map on the facing sheet illustrates the general locations of the water quality monitoring stations contained in the Table of Stations where Water Quality Concentrations Exceeds Criteria.

Below are listed the ten most critical stations in the region for fecal coliform bacteria concentrations. Values for the States of Montana and Utah were based on USGS data only.

		Exceedence Probability
1.	Whitewood Cr nr Deadwood, SD	1.00
2.	Goose Cr nr Sheridan, WY	1.00
3.	Bitter Cr nr Kanda, WY	1.00
4.	White R nr Kadoka, SD	1.00
5.	Cheyenne R nr Plainview, SD	1.00
6.	Killpecker Cr nr Rock Springs, WY	0.88
7.	Rapid Cr blw Rapid City, SD	0.71
8.	Cache La Poudre R nr Greeley, CO	0.70
9.	Big Sioux R nr Akron, IA	0.69
10.	Hams Fork R nr Diamondville, WY	0.67

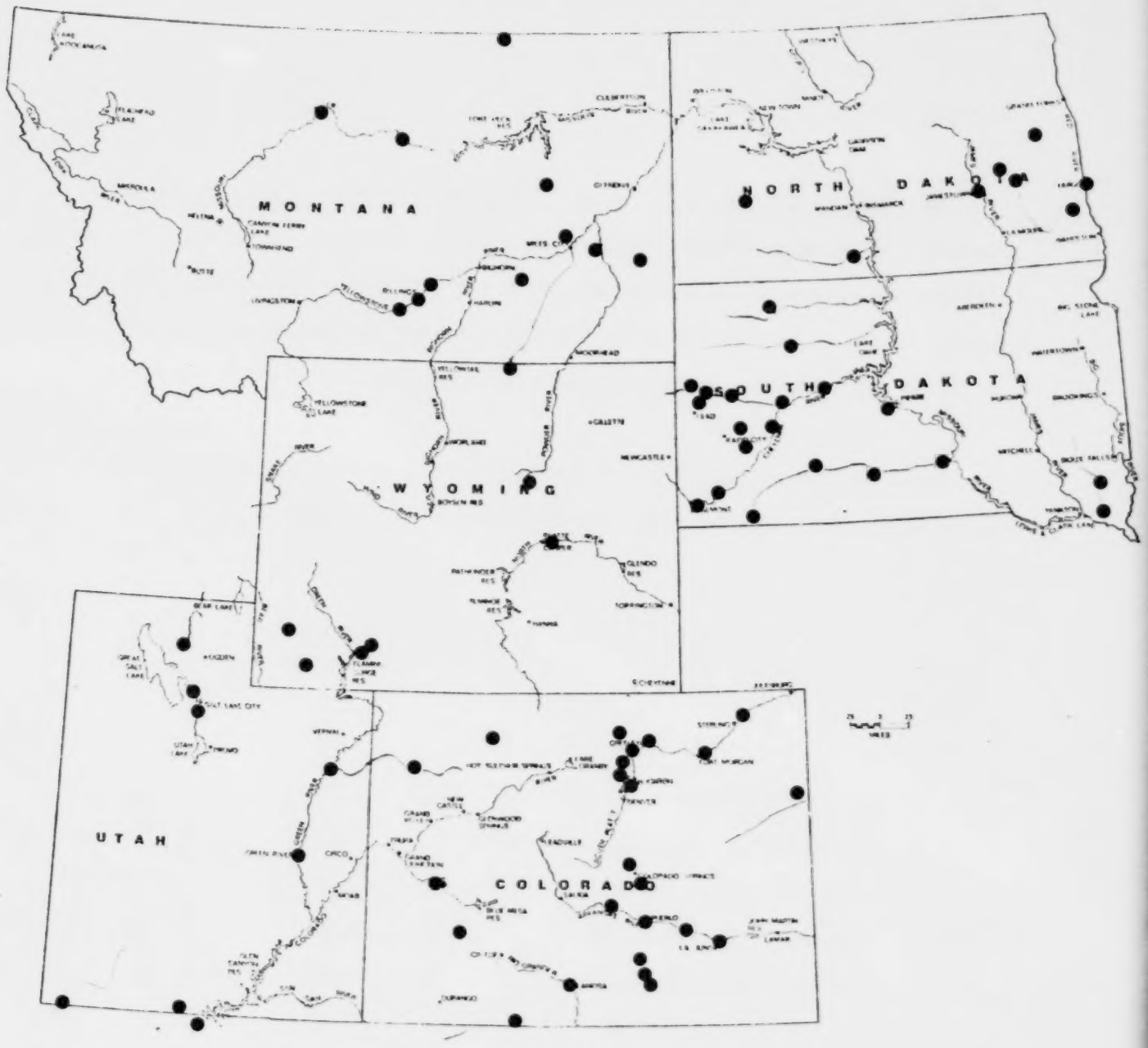


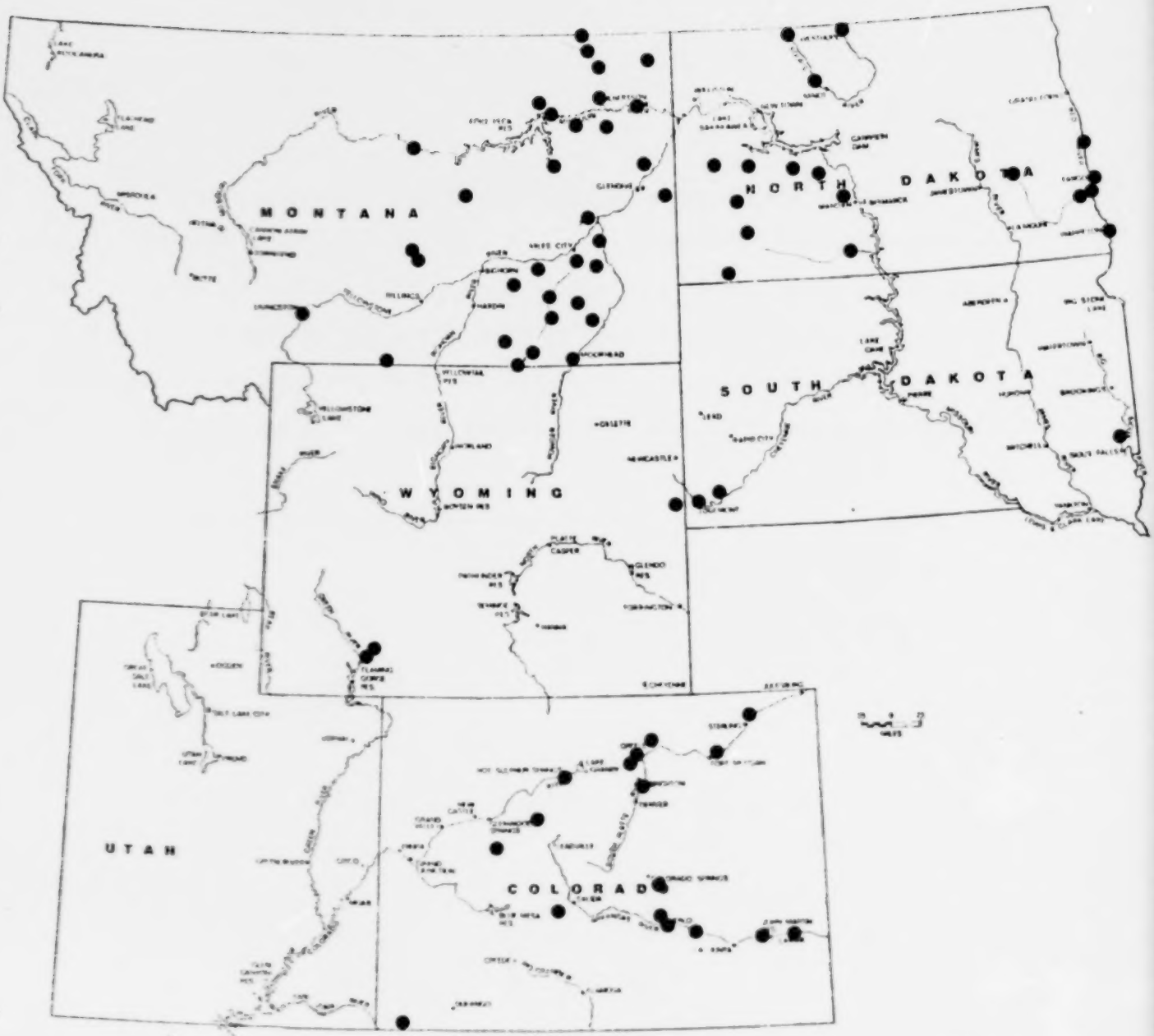
Figure 1. Stations where Fecal Coliform Bacteria concentrations were at least 85 percent higher than Standards for one month or more during 1979.

Nitrogen

The Table of Stations where Water Quality Concentrations Exceed Criteria contains the nitrogen category which is made up predominately of total nitrogen and some observed concentrations of the Nitrites and Nitrates. It appears that a larger percentage of the high nitrogen concentrations occurred in the States of Montana and North Dakota during the months of March and April.

Below are the ten stations that had the highest probability of exceedence on the basis of four consecutive monthly observations or more:

		Exceedence Probability
1.	West Parrot Cr nr Roundup, MT	1.00
2.	Red R of the North at Halstad, ND	1.00
3.	Fountain Cr blw Colorado Springs, CO	1.00
4.	South Platte R nr Kersey, CO	1.00
5.	Sheyenne R nr Kindred, ND	0.96
6.	Arkansas R nr Avondale, CO	0.93
7.	Souris R nr Westhope, ND	0.92
8.	South Platte R at Henderson, CO	0.90
9.	South Platte R nr Greeley, CO	0.88
10.	Powder R at Moorhead, MT	0.75



Reproduced from best available copy.

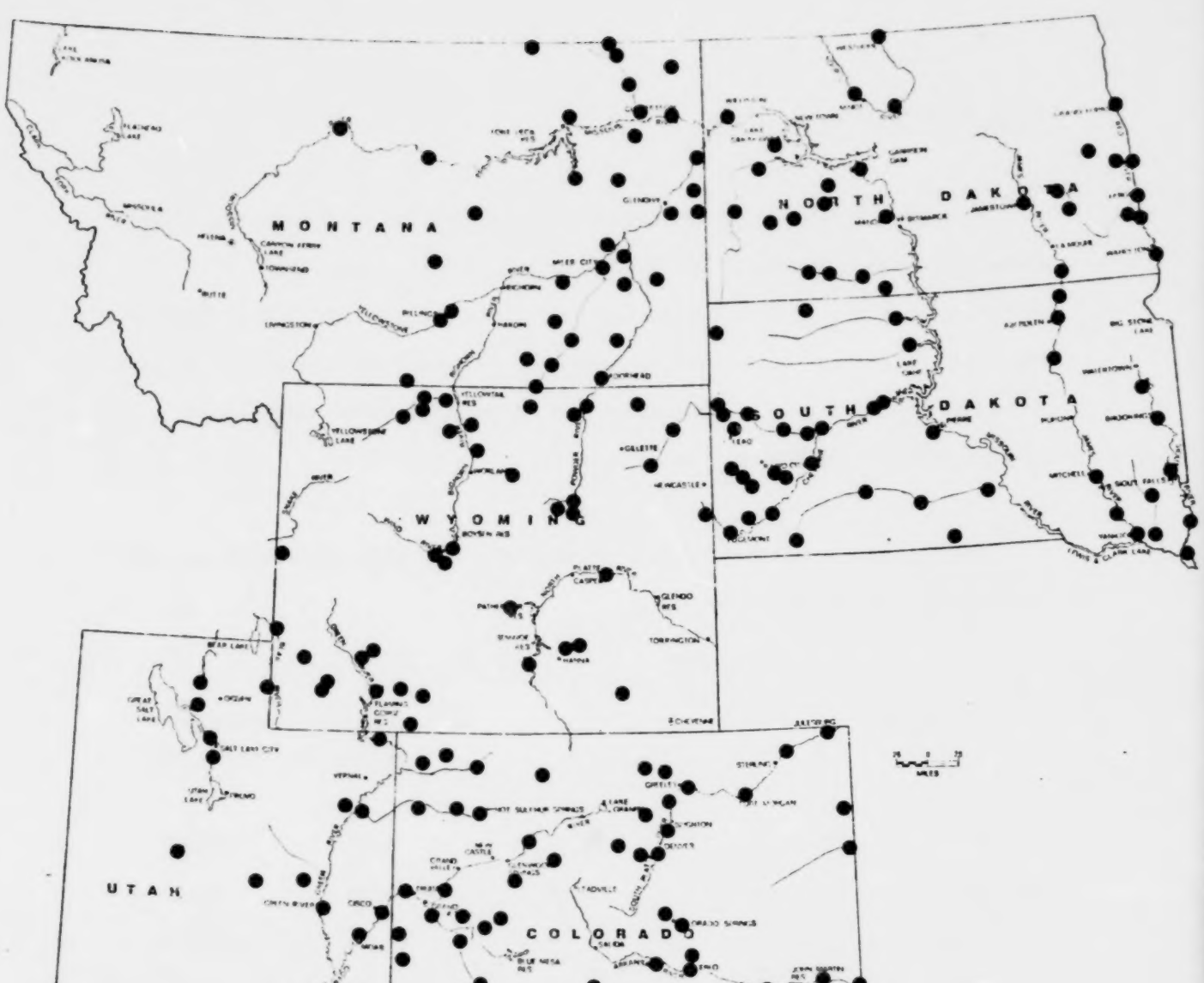
Figure 2. Stations where Nitrogen concentrations were at least 85 percent higher than Standards for one month or more during 1979.

Phosphorus

The map illustrates the widespread occurrence of phosphorus contributed to streams from natural sources. The areal extent of phosphorus generally describes where the sedimentary formations are found in the region. Major contributions occur during the month of April at the start of the snowmelt and runoff period. When phosphorus in streams combine with nitrogen it presents a potential hazard to the trophic status of many reservoirs in the region.

Below are listed the stations with the highest probability of exceedence and the highest average phosphorus concentrations:

		Exceedence Probability	Average Conc/Criteria
1.	South Platte R at 88th Ave., Denver, CO	1.00	34.0
2.	South Platte R at Henderson, CO	1.00	28.9
3.	Killpecker Cr at Rock Springs, WY	1.00	28.2
4.	Boulder Cr at Boulder-Weld County Line	1.00	12.3
5.	Big Sioux R - Brandon to Richland, SD	1.00	12.0±
6.	South Platte R nr Kersey, CO	1.00	8.5
7.	Cache La Poudre R nr Greeley, CO	0.95	8.4
8.	Big Sioux R at Akron, IA	1.00	7.7
9.	Rapid Cr nr Farmingdale, SD	1.00	7.3
10.	South Platte R at 66th Ave., Denver, CO	1.00	5.9



Reproduced from best available copy.

Figure 3. Stations where Phosphorus concentrations were at least 85 percent higher than criteria for one month or more during 1979.

Total Dissolved Solids (TDS)

Most of the streams in the region originate in the high mountain areas where the underlying formations are of igneous origin. Here the concentrations of TDS can be expected to be less than 50 mg/l but as soon as the river enters in its descent the sedimentary formations the pickup of salts increases substantially. The map on the facing page illustrates where concentrations over 900 mg/l were observed.

The ten most critical stations as determined by high concentrations and occurrences are listed below:

		Exceedence Probability	Average Conc. mg/l
1.	Bitter Cr nr Bonanza, UT	1.00	12576
2.	Salt Cr nr Sussex, WY	1.00	4274
3.	Otter Cr nr Otter, MT	1.00	5085
4.	Bitter Cr nr Salt Wells, WY	1.00	3671
5.	Beaver Cr nr Newcastle, WY	1.00	3430
6.	Hanging Woman Cr blw Horse Cr, MT	1.00	5055
7.	Cucharas R blw Walsenburg, CO	1.00	5212
8.	McElmo Cr at CO-UT Line	1.00	2442
9.	Redwater R at Circle, MT	0.92	3123
10.	Cheyenne R at Edgemont, SD	0.75	3648

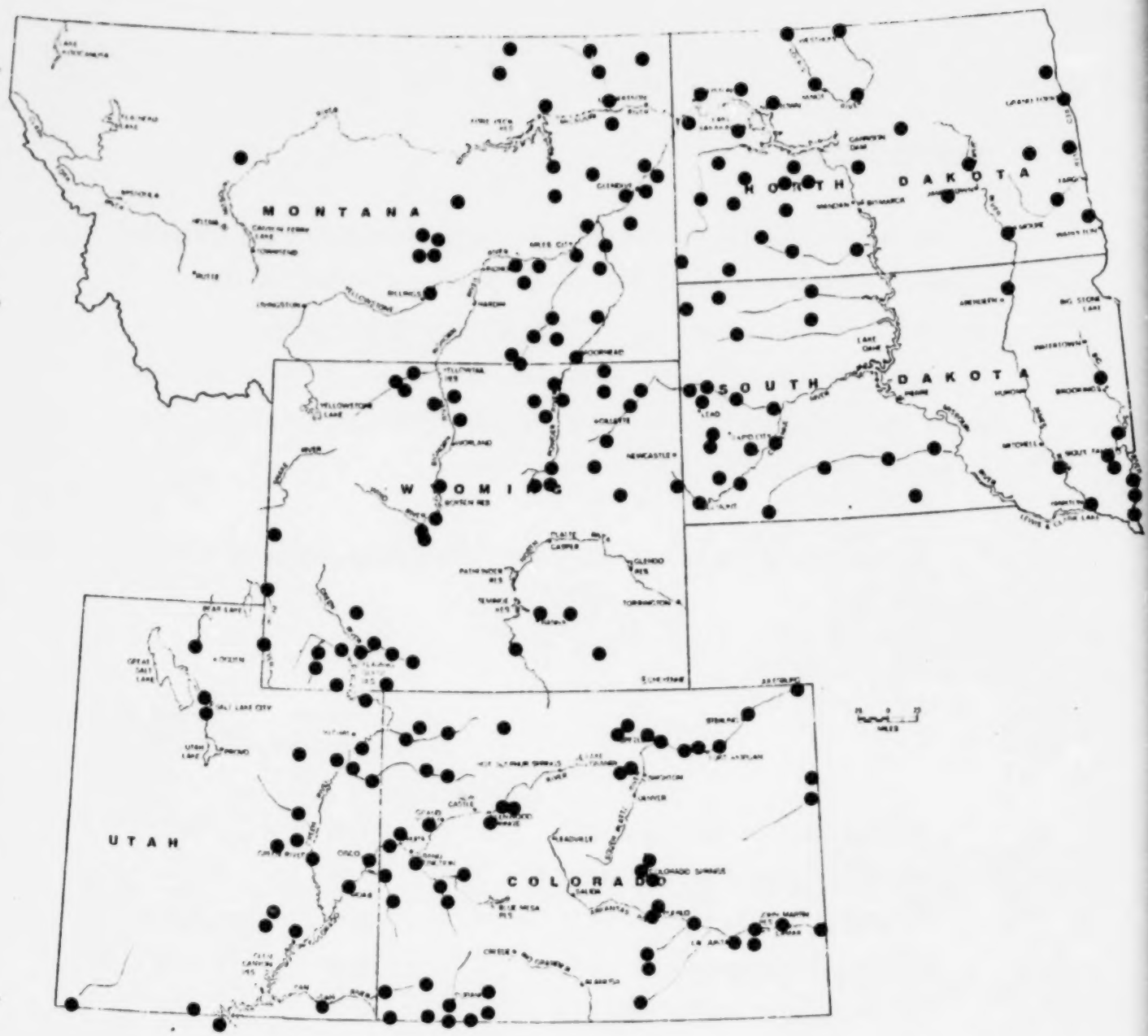


Figure 4. Stations where Total Dissolved Solids concentrations were at least 85 percent higher than criteria for one month or more during 1979.

Suspended Sediment

Characteristically, the locations with high concentrations of suspended sediments are also those locations where high total dissolved solids concentrations occur. The Table of Stations where Water Quality Concentrations Exceed Criteria illustrates that high suspended solids occur during high streamflow conditions and high TDS concentrations generally occur during the low streamflow conditions.

The stations in the region that exhibit the highest values for suspended sediments are:

		Exceedence Probability	Average Conc. mg/l
1.	San Juan R nr Shiprock, NM	1.00	5877
2.	Salt Wells Cr nr Salt Wells, WY	1.00	11070
3.	San Juan R nr Bluff, UT	0.92	5268
4.	Green R at Green River, UT	0.92	5264
5.	White R at Oacoma, SD	0.78	7077
6.	Powder R at Moorhead, MT	1.00	4057
7.	San Juan R at Four Corners	1.00	3049
8.	Muddy Cr nr Hanskville, UT	1.00	6130
9.	Muster Cr at Kinsey, MT	1.00	6700
10.	Powder R at Sussex, WY	1.00	1547

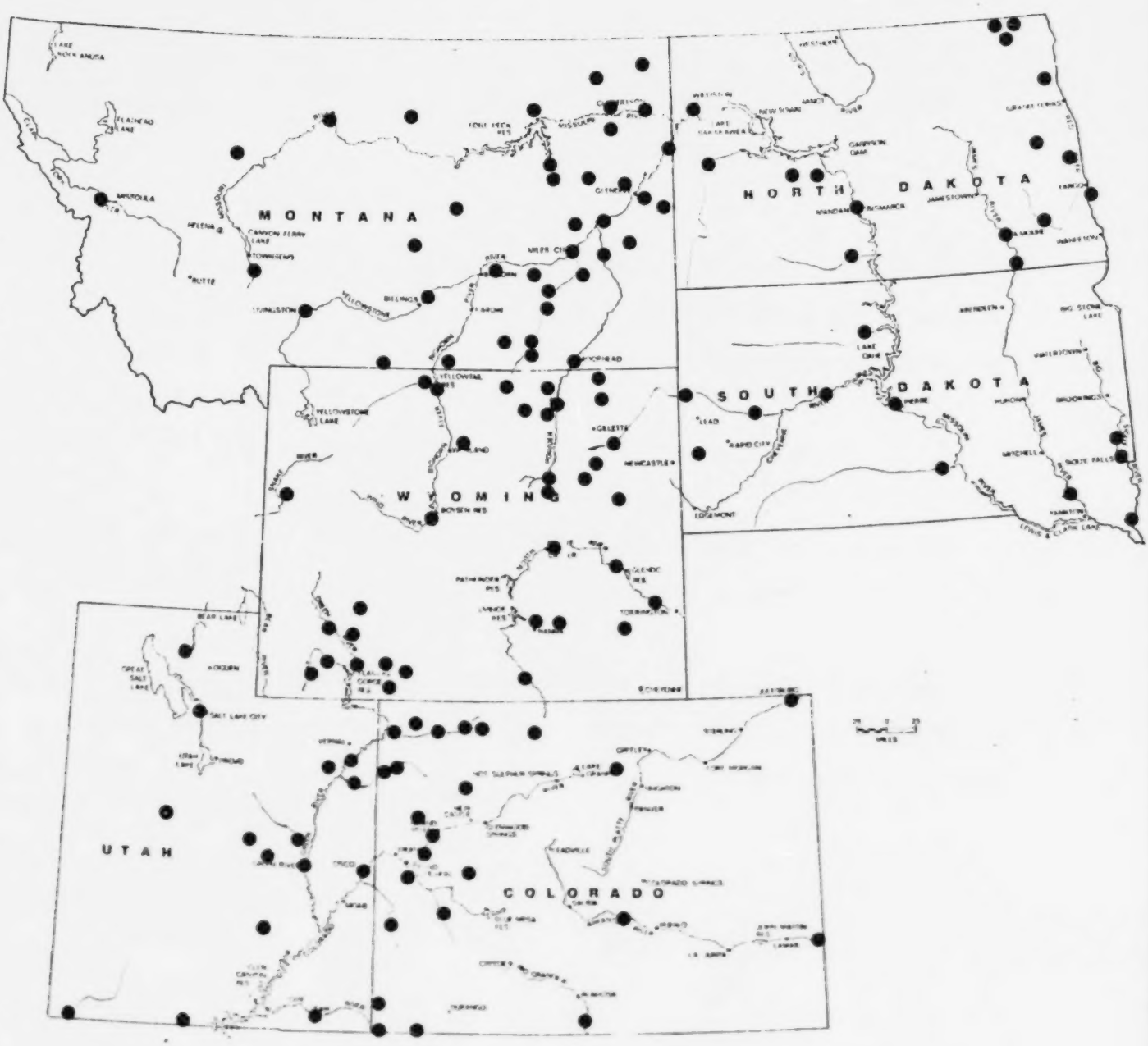


Figure 5. Stations where Suspended Sediment concentrations were at least 85 percent higher than criteria for one month or more during 1979.

Trace Elements

During 1979, a few trace element concentrations exceeding criteria were detected in the region. Those stations where the highest values were determined are as follows:

Animas R nr Silverton, CO	(Cu, Zn)
Clear Cr abv Golden, CO	(Cu, Zn)
Arkansas R blw Leadville, CO	(Zn)
Jordan R at 1700 S, SLC, UT	(Hg)

Refer to the Table of Stations where Water Quality Concentrations Exceed Criteria in the section entitled "State Reports" for additional stations where high values were noted.

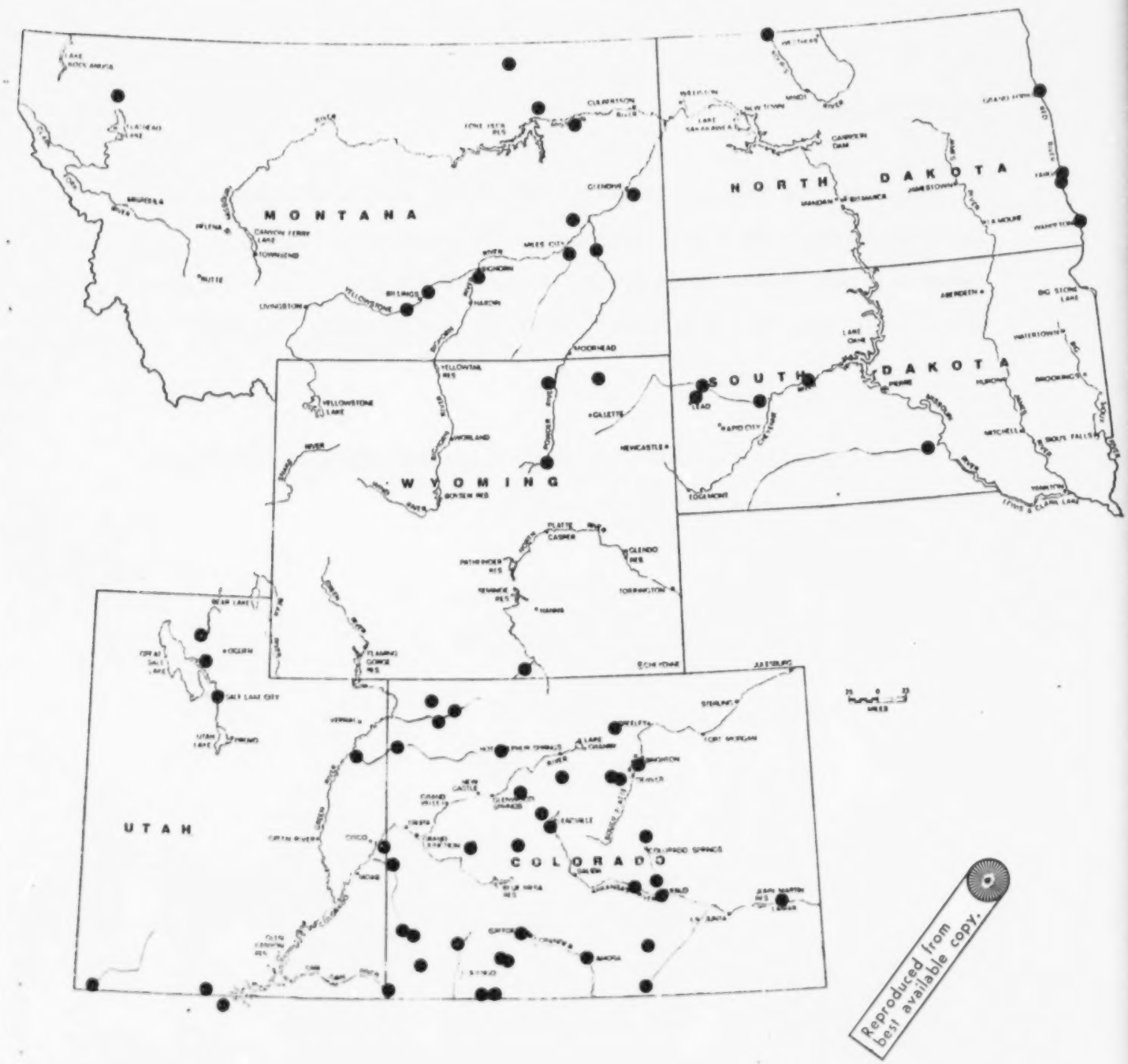


Figure 6. Stations where one or more observed Cyanide or Trace Element concentrations were detected to be at least 85 percent higher than Standards/criteria.

Un-ionized Ammonia

Water Quality Indicator values for un-ionized ammonia were determined at each station where the STORET parameters of total ammonia (NH_3-N), temperature, and pH were observed for the same water sample. The calculation procedure is described in William T. Willingham's 1976 report, "Ammonia Toxicity."

The following stations exhibited ammonia concentrations at high levels for at least two months of the year in 1979:

Fountain Cr blw Colorado Springs, CO

South Platte R at Henderson, CO

Whitewood Cr at Pluma, CO

Dolores R nr Cisco, UT

Jordan R at 1700 So., SLC, UT

STATE WATER QUALITY REPORTS

This section is comprised of three major tables. The table, Ranking of Critical Water Quality Statins by Pollutant Group is a summary of stations where parameter concentrations and frequency of occurrences were highest.

The Table of Stations where Water Quality Concentrations Exceed Criteria lists those stations where water quality parameters, arranged by groups, were noted to be at three levels above the standards/criteria norm, namely: standards/criteria to 15 percent above, 15-85 percent above standard/criteria, and greater than 85 percent above standard/criteria.

The Water Quality Trend Table lists stations where parameter groups exhibited significant changes over time as determined by statistical tests. This table shows quality improvement or degradation in each parameter group and points out those groups which are at or approaching critical levels. Data for 1975, 1976, 1977, and 1978 were trended against data for 1979 in determining this table.

Preceding page blank

Table 1. Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Fecal Coliform			
1. Cache La Poudre R nr Greeley	0.70	10	16879
2. Arkansas R nr Nepesta	0.45	7	20239
3. St Vrain Cr blw Longmont	0.62	8	7355
4. S Platte R at Henderson	0.45	7	10879
5. Boulder Cr at Boulder - Weld County Line	0.60	7	6317
6. S Platte R nr Kersey	0.62	9	2523
7. Little Thompson nr Milliken	0.52	9	1927
8. Clear Cr blw Idaho Springs	0.50	4	2800
9. Left Hand Cr nr Niwot	0.60	3	2268
10. Huerfano R at Hwy 85	0.50	3	1559
Nitrogen			
1. Fountain Cr blw Colorado Springs	1.00	5	0.34
2. Arkansas R nr Avondale	0.93	6	0.27
3. S Platte R nr Kersey	1.00	5	0.14
4. Indian Cr nr Sargents	1.00	2	0.30
5. Cache La Poudre nr Greeley	0.88	5	0.12
6. S Platte R at Henderson	0.90	5	0.11
7. Fountain Cr nr Pinon	0.75	3	0.12
8. St Vrain Cr blw Longmont	0.63	4	0.10
9. Clear Cr nr Mouth	0.67	4	0.09
10. S Platte R blw Ft Morgan	1.00	2	0.09
Phosphorus			
1. S Platte R at Henderson	1.00	12	2.89
2. Fountain Cr blw Colorado Springs	1.00	11	3.06
3. Boulder Cr at Boulder - Weld County Line	1.00	12	1.24
4. S Platte R - 60th Avenue Denver to Julesburg	1.00	12+	0.85
5. St Vrain Cr blw Longmont	1.00	10	0.68
6. Big Thompson R nr Mouth	1.00	12	0.49
7. Arkansas R - Nepesta to La Junta	1.00	8	0.43
8. Williams Fork at Mouth	1.00	3	0.76
9. McElmo Cr nr CO-UT Line	1.00	3	0.75
10. Monument Cr at Pikeview	1.00	2	0.51

Table 1 (Continued). Ranking of Critical Water Quality Stations by Pollutant Group

Dissolved Solids	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
1. Arkansas R - La Junta to Coolidge, KS	1.00	10±	3530±
2. Cucharas R blw Walsenburg	1.00	6	5212
3. McElmo Cr nr CO-UT Line	1.00	12	2442
4. Purgatoire R nr Las Animas	1.00	6	3907
5. S Platte R - Kersey to Julesburg	1.00	12	1850±
6. Yellow Cr nr White River	1.00	10	3660
7. Adobe Cr nr Fruita	1.00	4	2344
8. Bijou Cr nr Ft Morgan	1.00	9	1237
9. Mancos R nr CO-NM Line	1.00	10	1890
10. Piceance Cr at White River	1.00	12	1392
Suspended Sediments			
1. San Juan R at Shiprock, NM	1.00	12	5878
2. San Juan R at Four Corners	1.00	10	3049
3. Arkansas R nr Coolidge, KS	0.79	7	2084
4. McElmo Cr nr CO-UT Line	0.83	10	1411
5. White R nr CO-UT Line	0.88	5	1785
6. Little Snake R nr Lily	0.69	10	1126
7. White R abv Rangely	0.75	7	897
Trace Elements			
1. Animas R nr Silverton	0.58	5	(Cu)
2. Animas R nr Silverton	0.92	7	(Zn)
3. Clear Cr blw Idaho Springs	0.83	5	(Cu)
4. Clear Cr abv Golden	0.94	10	(Cu)
5.Clear Cr abv Golden	0.94	9	(Zn)
6. Arkansas R blw Leadville	1.00	6	(Zn)
7. Slate R blw Crested Butte	1.00	5	(Zn)

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00300 DO														
**********														
ARKANSAS RIVER NEAR MALTA, CO.		0											13	0.08
ARKANSAS RIVER NEAR AVONDALE, CO									XX				13	0.23
HUERFANO RIVER AT HIGHWAY 85-87					XX								6	0.17
GRANBY PUMP CANAL NR GRAND LAKE.								X	XX				6	0.33
TOMICHI CREEK AT GUNNISON													5	0.0
S PLATTE @ 88TH AVE MDSDD NO.1		0											49	0.24
SOUTH PLATTE RIVER AT JULESBURG.								0					34	0.26
HORSETOOTH RESERVOIR NEAR FORT C								X					109	0.06
COAL CREEK NEAR PLAINVIEW, CO.								0					12	0.08
31616 FEC COLI														
**********														
S PLATTE @ 60TH AVE MDSDD NO.1				X									30	0.08
S PLATTE @ 88TH AVE MDSDD NO.1						X							50	0.12
SAND CR @ BURLTN DITCH MDSDD NO1					0	XX							47	0.21
31615 FEC COLI														
**********														
ARKANSAS RIVER NEAR CANON CITY	XX												5	0.20
ARKANSAS RIVER BELOW CANON CITY									XX				2	0.50
ARKANSAS RIVER NEAR HERESTA		0	XX	XX	XX	XX	XX			XX			20	0.45
ARKANSAS AT CATLIN CANAL HDGT					XX								6	0.17
ARKANSAS RIVER NEAR LA JUNTA					XX		XX						12	0.17
HUERFANO RIVER AT HIGHWAY 85-87					XX		XX		XX				6	0.50
CUCHARAS RIVER BELOW WALSENBURG									XX				6	0.17
ST CHARLES ABOVE CONFLUENCE WITH N ST CH							XX						6	0.17
FOUNTAIN CREEK BELOW COLORADO SP		XX			XX			XX	XX				21	0.24
MCELMO CREEK WEST OF CORTEZ					X								5	0.20
NAVAJO RIVER NEAR CHROMO							XX						5	0.20
WHITE RIVER BELOW PICEANCE CRK.			XX										5	0.20
YAMPA RIVER AT MILNER									XX				11	0.09
UNCOMPAHGRE RIVER AT DELTA					XX	XX		XX					14	0.43
RIO GRANDE AT ALAMOSA							XX						5	0.20
ARICKAREE RIVER NEAR WRAY, COLO									XX		XX		5	0.40
SOUTH PLATTE AT HENDERSON				XX	XX	X	XX	XX	XX	XX			20	0.45
SOUTH PLATTE RIVER NEAR PLATTVILLE							X						3	0.33
SOUTH PLATTE NEAR KERSEY			XX		XX	X	XX	XX	XX	X	X	XX	21	0.62
S.PLATTE BELOW FT. MORGAN					XX								5	0.20
SOUTH PLATTE BELOW STERLING			XX										5	0.20
CACHE LA POUDRE NEAR FT. COLLINS								XX		XX			20	0.20
CACHE LA POUDRE NEAR GREELEY	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX		20	0.70
BIG THOMPSON RIVER BELOW ESTES PARK			XX										5	0.20
BIG THOMPSON NEAR MOUTH			XX		X	XX	XX	XX					21	0.29
LITTLE THOMPSON NEAR BERTHOUD									X				6	0.17
LITTLE THOMPSON NEAR MILLIKEN	XX	X	X		XX	XX		XX	X	X	X		21	0.52
ST VRAIN BELOW LONGMONT	X	XX		XX	XX		X	XX	XX	XX			13	0.62
ST. VRAIN NEAR MOUTH					XX		XX						6	0.33

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

Reproduced from best available copy.

COLORADO

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
BOULDER CR. AT BLDR WELD CO LINE	XX				XX	XX			XX	XX	XX	XX	20	0.60
LEFT HAND CREEK NEAR NIWOT					XX		XX		XX				5	0.60
CLEAR CREEK BELOW IDAHO SPRINGS				XX		XX			X	XX			8	0.50
CLEAR CREEK ABOVE GOLDEN	XX	XX											17	0.24
CLEAR CREEK AT WHEAT RIDGE, COLO											XX		12	0.08
WEST FORK CLEAR CREEK BELOW EMPIRE									XX				3	0.33
BEAR CREEK AT JEFFERSON-DENVER COUNTY LI									XX				12	0.08

31625 FEC COLI

ARKANSAS RIVER NEAR COOLIDGE, KA							X						12	0.08
FOUNTAIN CREEK NEAR COLORADO SPR					XX								9	0.11
FOUNTAIN CREEK AT COLORADO SPRIN								0	XX				8	0.25
MONUMENT CREEK AT PIKEVIEW, CO.					XX			XX					9	0.22
SAN JUAN RIVER AT SHIPROCK, NM													12	0.0
MCELMO CREEK NEAR COLORADO-UTAH					X								12	0.08
PICEANCE CREEK AT WHITE RIVER, CO.													1	0.0
SPRING CREEK NEAR MONTROSE, CO.					XX								9	0.11
SOUTH PLATTE RIVER AT JULESBURG.										X			7	0.14

00615 NO2-N

ARKANSAS RIVER ABOVE PUEBLO, CO.									X				4	0.75
ARKANSAS RIVER NEAR PUEBLO, CO.												XX	11	0.27
ARKANSAS RIVER NEAR AVONDALE, CO				XX	XX			XX	XX	X		XX	14	0.93
ARKANSAS RIVER NEAR NEPESTA, CO.									XX			XX	13	0.62
ARKANSAS RIVER NEAR NEPESTA	X	XX	X										9	0.56
ARKANSAS AT CATLIN CANAL HDGT	X		X										3	0.67
ARKANSAS RIVER NEAR LA JUNTA	X	X											8	0.44
ARKANSAS RIVER AT LAS ANIMAS	XX												3	0.33
ARKANSAS RIVER AT LAMAR, COLO					X	XX							4	0.50
ARKANSAS RIVER AT LAS ANIMAS	XX												3	0.33
FOUNTAIN CREEK BELOW COLORADO SP	XX	XX	XX	XX	XX								9	1.00
FOUNTAIN CREEK NEAR PINON, CO.				XX	XX							X	4	0.75
FOUNTAIN CREEK AT PUEBLO			XX										3	0.33
COLORADO RIVER NEAR HOT SULFUR SPRINGS					XX								2	0.50
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX												2	0.50
PICEANCE CREEK AT WHITE RIVER, CO.				X	X								11	0.18
INDIAN CREEK NEAR SARGENTS				XX	XX								2	1.00
CRYSTAL RIVER NEAR MOUTH						XX							2	0.50
BEAVER CREEK AT AVON						XX							1	1.00
S PLATTE @ 88TH AVE MOSDO NO.1	X	0											50	0.32
SOUTH PLATTE AT HENDERSON	XX	X	XX	XX	X								10	0.90
SOUTH PLATTE NEAR KERSEY	XX	XX	XX	XX	X								8	1.00
S.PLATTE BELOW FT. MORGAN			X		X								2	1.00
SOUTH PLATTE BELOW STERLING			X										2	0.50
CACHE LA POUDRE NEAR FT. COLLINS	X	X		X									8	0.50
CACHE LA POUDRE NEAR GREELEY	XX	XX	XX	XX	X								8	0.88
BIG THOMPSON NEAR MOUTH	X	X											8	0.38
ST VRAIN BELOW LONGMONT		0	XX	XX	XX								8	0.63

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
ST. VRAIN NEAR MOUTH	0		XX										3	0.67
BOULDER CR. AT BLDR WELD CO LINE			X	XX	XX								6	0.83
CLEAR CREEK NEAR MOUTH	0	0	X	XX									6	0.67
SAND CR @ BURLTN DITCH MDSDD N01		0	0										48	0.17
00600 TOTAL N														
**********														
SAN JUAN RIVER AT SHIPROCK, NM		X											12	0.08
MCELMO CREEK NEAR COLORADO-UTAH					X								13	0.08
SAN MIGUEL RIVER BELOW URAVAN, C	0									X			9	0.22
00620 NO3-N														
**********														
ARKANSAS RIVER AT LAS ANIMAS	XX												3	0.33
ARKANSAS RIVER AT LAS ANIMAS	XX												3	0.33
SOUTH PLATTE NEAR KERSEY	0												8	0.13
00630 NO2&NO3														
**********														
FOUNTAIN CREEK AT PUEBLO							X						3	0.33
CROSS CREEK AB CON. WITH EAGLE										XX			7	0.14
WEST FORK CLEAR CREEK BELOW EMPIRE							X						2	0.50
00665 PHOS-TOT														
**********														
ARKANSAS RIVER NEAR CANON CITY					X		XX						5	0.40
ARKANSAS RIVER BELOW CANON CITY							XX						2	0.50
ARKANSAS RIVER AT PORTLAND, CO.					XX	XX		XX				0	9	0.44
ARKANSAS RIVER NEAR PUEBLO											X		5	0.20
ARKANSAS RIVER NEAR NEPESTA	XX	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	XX	21	1.00
ARKANSAS AT CATLIN CANAL HDGT	XX		XX				XX		XX				5	0.80
ARKANSAS RIVER NEAR LA JUNTA	X	XX	X	XX	XX		XX		X		XX		13	1.00
ARKANSAS RIVER AT LAS ANIMAS							XX						6	0.17
ARKANSAS RIVER AT LAMAR, COLO						XX	X	X	X			XX	16	0.50
ARKANSAS RIVER NEAR COOLIDGE, KA						XX							11	0.09
ARKANSAS RIVER AT LAS ANIMAS							XX						6	0.17
PURGATOIRE RIVER NEAR SEGUNDO							XX				XX		6	0.33
PURGATOIRE RIVER BELOW TRINIDAD											X		6	0.17
PURGATOIRE RIVER NEAR LAS ANIMAS											X		6	0.17
APISHAPA RIVER NEAR AGUILER							XX						6	0.17
HUERFANO RIVER AT HIGHWAY 85-87							XX		XX		XX		6	0.50
CUCHARAS RIVER BELOW WALSENBURG									XX				6	0.17
FOUNTAIN CREEK NEAR MANITOU									X				6	0.17
FOUNTAIN CREEK NEAR COLORADO SPR		X			XX								9	0.22
FOUNTAIN CREEK AT COLORADO SPRIN		XX	XX	XX	XX			X	XX			XX	10	0.70
FOUNTAIN CREEK BELOW COLORADO SP		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	21	1.00
FOUNTAIN CREEK NEAR PINON, CO.				XX	XX							XX	4	0.75
FOUNTAIN CREEK AT PUEBLO	XX		XX		XX		X				XX		6	0.83
MONUMENT CREEK AT PALMER LAKE, C									XX				9	0.11
MONUMENT CREEK AT PIKEVIEW, CO.		XX	XX	XX	XX		X	X				XX	10	0.80

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
COLORADO RIVER NEAR DOTSERO						X						XX	23	0.22
COLORADO RIVER NEAR CAMEO							XX						5	0.20
COLORADO RIVER NEAR LOMA						X	XX	X	X				22	0.41
COLORADO RIVER BELOW COLORADO-UT			X	XX	XX		XX					X	9	0.56
SAN JUAN RIVER BELOW PAGOSA											X		3	0.33
SAN JUAN ABOVE NAVAJO RESERVOIR							XX						6	0.17
SAN JUAN RIVER AT SHIPROCK, NM	XX	XX		XX	XX				XX	XX			12	0.50
SAN JUAN R AT FOUR CORNERS, CO	XX		XX	XX		X	X		X	XX			12	0.58
MCELMO CREEK WEST OF CORTEZ	0				X			XX					5	0.60
MCELMO CREEK NEAR COLORADO-UTAH	X	XX	XX	XX	XX		X	XX		XX	X	X	13	0.77
MANCOS RIVER AT MANCOS									X				5	0.20
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX								X				5	0.40
LA PLATA R NORTH OF LA PLATA					X								5	0.20
LA PLATA RIVER AT COLORADO-NEW M			XX	XX	XX								12	0.25
ANIMAS RIVER NEAR SILVERTON	X		XX			X							14	0.21
ANIMAS RIVER ABOVE DURANGO							XX						5	0.20
LOS PINOS RIVER NEAR LABOCA							XX						5	0.20
PIEDRA RIVER NE OF ARBOLES, COLO					X		XX						6	0.33
WHITE RIVER BELOW MEEKER, CO.						YX							10	0.20
WHITE RIVER BELOW PICEANCE CRK.	0												6	0.17
WHITE RIVER ABOVE RANGELY, CO.			XX	XX	XX	XX							11	0.36
WHITE RIVER AT RANGELY			0										6	0.17
YELLOW CREEK NEAR WHITE RIVER, C								XX					3	0.33
PICEANCE CREEK AT WHITE RIVER, CO.	XX		XX	XX	XX			XX	XX	X			11	0.64
YAMPA ABOVE OAK CREEK CONFLUENCE							XX						6	0.17
YAMPA RIVER AT MILNER		X	X	X									8	0.50
YAMPA RIVER BELOW DIVERSION, NEA				XX	X								12	0.17
YAMPA RIVER BELOW ELKHEAD CREEK				XX	XX								12	0.17
YAMPA RIVER BELOW CRAIG, CO.	X	X		XX	XX				X		X	0	12	0.58
YAMPA RIVER NEAR MAYBELL, CO.	0			XX	XX								12	0.25
LITTLE SNAKE ABOVE LILY			XX										2	0.50
LITTLE SNAKE RIVER NEAR LILY, CO			XX	XX	XX			X			XX		11	0.45
WILLIAMS FORK AT MOUTH, NEAR HAM				XX	XX	X							12	0.25
DOLORES RIVER ABOVE CONFLUENCE WITH SAN						XX			XX		X		7	0.43
DOLORES RIVER AT GATEWAY							XX						5	0.20
SAN MIGUEL RIVER AT NATURITA, CO					X								10	0.10
SAN MIGUEL RIVER AT URAVAN, CO.							X						8	0.25
SAN MIGUEL RIVER BELOW URAVAN, C				0									9	0.11
GUNNISON RIVER NEAR DELTA											X		5	0.20
GUNNISON RIVER NEAR GRAND JUNCTI				XX	XX			XX					9	0.33
SPRING CREEK NEAR MONTROSE, CO.				XX		XX							9	0.22
UNCOMPAHGRE RIVER AT DELTA						X	XX	X		X	X		15	0.53
SURFACE CREEK AT ORCHARD CITY									XX		X		6	0.33
NORTH FORK GUNNISON RIVER NEAR S				X			X						7	0.29
NORTH FORK GUNNISON RIVER NEAR BOWIE											XX		4	0.25
N FK OF GUNNISON BELOW HOTCHKISS											XX		5	0.20
TOMICHI CREEK AT GUNNISON	X												5	0.20
ROAN CREEK NEAR DE BEQUE							0				X		4	0.50
PARACHUTE CREEK NEAR GRAND VALLE					XX	XX							7	0.29
ROARING FORK RIVER BELOW ASPEN							XX						6	0.17

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2 TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
CRYSTAL RIVER AT REDSTONE							XX						4	0.25
CRYSTAL RIVER NEAR MOUTH							XX						7	0.14
EAGLE RIVER AT TOWN OF EDWARDS	XX	X	X								XX		23	0.30
EAGLE RIVER AT GYPSUM		0	0		X								12	0.25
BEAVER CREEK AT AVON								X		XX			8	0.25
CORE CREEK AT MOUTH	XX		XX								X		4	0.50
CROSS CREEK AB CON. WITH EAGLE											0		10	0.10
BLUE RIVER ABOVE DILLON RES.											0		6	0.17
SNAKE RIVER BELOW KEYSTONE											X		4	0.25
NORTH PLATTE RIVER NEAR NORTHGATE, CO.			X	X	X								12	0.25
MICHIGAN RIVER AT WALDEN											0		6	0.17
RIO GRANDE RIVER NEAR DEL NORTE							XX				X		4	0.50
RIO GRANDE AT ALAMOSA							X		0		X		5	0.60
RIO GRANDE NEAR LOBATOS, CO.		X	0	XX	X	X	X	X					11	0.64
S FORK RIO GRANDE R AT TOWN OF SOUTH FOR							XX				X		5	0.40
SAGUACHE CREEK NEAR SAGUACHE			XX				X		X		Y		5	0.80
NORTH FORK REPUBLICAN RIVER NEAR LAIRD			0						0		XX		4	0.75
ARICKAREE RIVER NEAR WRAY, COLO							X		XX				5	0.40
SOUTH PLATTE ABOVE LITTLETON,							XX		X		X		11	0.36
S PLATTE @ 60TH AVE MOSDD NO.1	XX	XX	XX	XX	XX								39	1.00
S PLATTE @ 88TH AVE MOSDD NO.1	XX	XX	XX	XX	XX	XX							50	1.00
SOUTH PLATTE AT HENDERSON	XX	XX	XY	XX	XX	XX	XX	XX	XX	XX	XX	XX	20	1.00
SOUTH PLATTE RIVER NEAR PLATTVILLE							XX		XY		XX		3	1.00
SOUTH PLATTE NEAR KERSEY	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	21	1.00
S.PLATTE BELOW FT. MORGAN			X		XX		XX		XX		XX		5	1.00
SOUTH PLATTE RIVER AT BALZAC					XY		XX		XY		XY		4	1.00
SOUTH PLATTE BELOW STERLING			XX		X		X		XX		XX		5	1.00
SOUTH PLATTE RIVER AT JULESBURG.	XX	XX				XX	XX	X			XX	XX	12	0.67
CACHE LA POUDRE R A MO OF CN. NR							XX		XY				11	0.18
CACHE LA POUDRE RIVER AT FORT CO				XX			XX						9	0.22
CACHE LA POUDRE RIVER BELOW FORT		X		XX			XX	YX	XY				8	0.56
CACHE LA POUDRE RIVER AT TIMNATH	XX	XX	XY	XX	X		XX	X	XY				9	0.89
CACHE LA POUDRE NEAR FT. COLLINS	XX	XX	XX	XX	X		0	XX	XY	YX	XX	XX	20	0.75
CACHE LA POUDRE NEAR GREELEY	XY	XX	XY	XX	XX	XX	XX	XX	XY	YX	XX	XX	20	0.95
BIG THOMPSON RIVER BELOW ESTES PARK	XY		XY										5	0.40
BIG THOMPSON NEAR LOVELAND			X		X								5	0.40
BIG THOMPSON NEAR MOUTH	XY	XX	XX	XX	XX	XX	XX	XX	XY	YX	XX	XX	21	1.00
LITTLE THOMPSON NEAR BERTHOUD					XX						X		6	0.33
LITTLE THOMPSON NEAR MILLIKEN	XX	XX	XX	XX		XX	XY	YX	XY	YX	XX	XX	21	0.95
CARTER LAKE NEAR BERTHOUD, CO.							XX						7	0.14
ST. VRAIN CREEK AT LYONS, CO.	Y										0		11	0.18
ST VRAIN BELOW LONGMONT	XY	XX	XY	XX	XX	XX	XY	YX	XY	YX			12	1.00
ST. VRAIN NEAR MOUTH	XY		XY		X		XY		XY		XY		6	1.00
BOULDER CR. AT BLDR WELD CO LINE	XY	XX	XX	XX	XX	YX	XY	YX	XY	YX	XY	XX	20	1.00
LEFT HAND CREEK NEAR NIWOT			X				XX				Y		6	0.50
LEFT HAND CREEK AT MOUTH, AT LON					XX			0					8	0.25
CLEAR CREEK BELOW IDAHO SPRINGS				XX		X			Y				8	0.50
CLEAR CREEK ABOVE GOLDEN		X	Y			X							16	0.25
CLEAR CREEK AT WHEAT RIDGE, COLO				X			XY		XY		XY		12	0.33
CLEAR CREEK NEAR MOUTH		XX	XX	XX		YX	XY	YX	XY	YX	XY		12	0.92

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
NORTH FORK CLEAR CREEK BELOW BLACKHAWK									0				3	0.33
SAND CR @ PUBLIC DITCH NOSDD NO1	XX	XX	XX	XX	XX	XX							44	0.98
BEAR CREEK ABOVE MORRISON	XX		XX						XX		XX		6	0.67
BEAR CREEK AT JEFFERSON-DENVER COUNTY LI	X	0		XX			XX				XX		12	0.67
00650 T PO4														
ARKANSAS RIVER AT PORTLAND, CO.					XX								8	0.13
ARKANSAS RIVER NEAR WESTA, CO.								X		XX			4	0.75
ARKANSAS RIVER NEAR COOLIDGE, KA						XX							3	0.33
FOUNTAIN CREEK NEAR COLORADO SPR					XX								2	0.50
FOUNTAIN CREEK AT COLORADO SPRIN				XX	XX								2	1.00
FOUNTAIN CREEK NEAR PINON, CO.,				XX	XX								3	0.67
MONUMENT CREEK AT PIKEVIEW, CO.				XX	XX								2	1.00
COLORADO RIVER BELOW COLORADO-UT					XX		XX						3	0.67
SAN JUAN RIVER AT SHIPROCK, NM				XX	XX								3	0.67
SAN JUAN R AT FOUR CORNERS, CO				XX		X							3	0.67
MCELMO CREEK NEAR COLORADO-UTAH				XX	XX	0							3	1.00
LA PLATA RIVER AT COLORADO-NEW M				XX	XX								3	0.67
WHITE RIVER BELOW MEEKER, CO.					X	XX							2	1.00
WHITE RIVER ABOVE RANGELY, CO.				XX	XX	XX							3	1.00
PICEANCE CREEK AT WHITE RIVER, CO.				XX	XX								6	0.22
YAMPA RIVER BELOW DIVERSION, NEA					X								2	0.50
YAMPA RIVER BELOW ELKHEAD CREEK				XX	XX								3	0.67
YAMPA RIVER BELOW CRAIG, CO.,				XX	XX								3	0.67
YAMPA RIVER NEAR MAYBELL, CO.				XX	XX								3	0.67
LITTLE SNAKE RIVER NEAR LILY, CO				XX									1	1.00
WILLIAMS FORK AT MOUTH, NEAR HAM				XX	XX	X							3	1.00
SAN MIGUEL RIVER AT NATURITA, CO					X								2	0.50
SAN MIGUEL RIVER AT URAVAN, CO.				0									1	0.33
SAN MIGUEL RIVER BELOW URAVAN, C				X	X								3	0.67
GUNNISON RIVER NEAR GRAND JUNCTI				XX	XX								3	0.67
SPRING CREEK NEAR MONTROSE, CO.				XX		XX							3	0.67
NORTH FORK GUNNISON RIVER NEAR S				X									2	0.50
PARACHUTE CREEK NEAR GRAND VALLE					XX	XX							4	0.50
RIO GRANDE NEAR LOBATOS, CO.				XX	X	X							3	1.00
SOUTH PLATTE RIVER AT JULESBURG,						XX	XX						2	1.00
CACHE LA POUDRE RIVER AT TIMNATH					X								2	0.50
ST VRAIN BELOW LONGMONT			XX										1	1.00
LEFT HAND CREEK AT MOUTH, AT LON					XX								3	0.33
00515 RESIDUE														
S PLATTE @ 60TH AVE NOSDD NO.1	XX	XX	XX	XX	X								40	0.92
S PLATTE @ 88TH AVE NOSDD NO.1	X	X	X	X	X								50	0.76
SAND CR @ PUBLIC DITCH NOSDD NO1	XX	XX	XX	XX	X	0							48	0.81
70300 RESIDUE														
ARKANSAS RIVER NEAR PUEBLO	XX												5	0.20

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
ARKANSAS RIVER NEAR NEPESTA	X	X	X	X	O				X	O	X	X	22	0.64
ARKANSAS AT CATLIN CANAL HDGT	XX		XX		X				O		X		6	0.83
ARKANSAS RIVER NEAR LA JUNTA	XX	XX	XX	XX	XX				XX		XX		13	0.85
ARKANSAS RIVER AT LAS ANIMAS	XX		XX		XX				XX		XX		6	0.83
ARKANSAS RIVER AT LAMAR, COLO					XX	XX	X	XX	XX	XX	XX	XX	14	1.00
ARKANSAS RIVER NEAR COOLIDGE, KA		XX	XX	XX	XX	XX	XX	XX			XX	XX	10	1.00
ARKANSAS RIVER AT LAS ANIMAS	XX		XX		XX				XX		XX		6	0.83
PURGATOIRE RIVER BELOW TRINIDAD	XX		XX		XX		XX		XX		XX		6	1.00
PURGATOIRE RIVER NEAR LAS ANIMAS							XX		XX		XX		3	1.00
APISHAPA RIVER NEAR AGUILER	X		X		X		X		X		X		6	1.00
HUERFANO RIVER AT HIGHWAY 85-87	XX		XX		X		O		X		X		6	1.00
CUCHARAS RIVER BELOW WALSENBURG	XX		XX		XX		XX		X		XX		5	1.00
FOUNTAIN CREEK BELOW COLORADO SP	O	O										X	23	0.22
FOUNTAIN CREEK AT PUEBLO	XX		XX		XX		XX		XX		XX		6	1.00
COLORADO RIVER AT NEW CASTLE	X	X	X						O	X	X	X	23	0.61
COLORADO RIVER NEAR CAMEO	X		X						X		X		5	0.80
COLORADO RIVER NEAR LOMA	X	O	X	X				X	XX	XX	X	X	21	0.76
COLORADO RIVER BELOW COLORADO-UT	X	O	X	O				X				X	9	0.67
SAN JUAN RIVER AT SHIPROCK, NM	O							O		O			12	0.25
SAN JUAN R AT FOUR CORNERS, CO	X	X							X	X	X		12	0.42
MCELMO CREEK WEST OF CORTEZ	XX		XX		XX			XX	XX				5	1.00
MCELMO CREEK NEAR COLORADO-UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX		XX		X			X	XX				5	1.00
LA PLATA R NORTH OF LA PLATA			XX				O		XX		XX		5	0.80
LA PLATA RIVER AT COLORADO-NEW M	XX	XX	XX				X	X	XX	XX	XX	XX	12	0.75
ANIMAS RIVER NEAR SILVERTON	X		O										13	0.15
FLORIDA AT CON. WITH ANIMAS			O										5	0.20
GREEN RIVER AR COL. UTAH LINE	O												6	0.17
WHITE RIVER BELOW PICEANCE CRK.			O										6	0.33
WHITE RIVER AT RANGELY			O						O				6	0.33
WHITE R. NR. COLO. STATE LINE, UT.									O				2	0.50
YAMPA BELOW LITTLE SNAKE RIVER			O										6	0.17
LITTLE SNAKE RIVER NEAR LILY, CO									X	X			11	0.18
DOLORES RIVER ABOVE CONFLUENCE WITH SAN			XX						XX	XX	XX		7	0.57
DOLORES RIVER AT GATEWAY			XX				XX		XX		XX		5	0.80
SAN MIGUEL RIVER AT NATURITA, CO								X		O	O		10	0.40
SAN MIGUEL RIVER AT URAVAN, CO.	X	X											7	0.43
SAN MIGUEL RIVER BELOW URAVAN, C	XX	XX		X				X		XX	X		10	0.70
GUNNISON SOUTHEAST OF GRD JUNCT				O									6	0.17
GUNNISON RIVER NEAR GRAND JUNCTI			O					X		XX			8	0.44
SPRING CREEK NEAR MONTROSE, CO.	XX		XX				X	X		X	XX		9	0.67
UNCOMPAHGRE RIVER AT RIDGWAY			O										5	0.20
UNCOMPAHGRE RIVER AT DELTA					O	X	XX	XX	XX	XX	XX	XX	15	0.93
SURFACE CREEK AT ORCHARD CITY			X										6	0.17
N FK OF GUNNISON BELOW HOTCHKISS	X								XX		X		5	0.60
ROAN CREEK NEAR DE BEQUE							X		XX		XX		4	0.75
ROARING FORK AT MOUTH													16	0.0
EAGLE RIVER AT GYPSUM	X	X	X						X		O		12	0.75
CROSS CREEK AR CON. WITH EAGLE			X								O	O	10	0.30
BLUE RIVER ABOVE DILLON RES.											O		6	0.17

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
NORTH FORK REPUBLICAN RIVER NEAR LAIRD			XX								X		4	0.50
ARICKAREE RIVER NEAR WRAY, COLO			XX				XX				XX		5	0.60
SOUTH PLATTE AT HENDERSON	X	0	X	X	X			0	X	X	X	X	20	0.75
SOUTH PLATTE RIVER NEAR PLATTVILLE									X		X		3	0.67
SOUTH PLATTE NEAR KERSEY	XX	XX	XX	XX	0		XX	XX	XX	XX	XX	XX	20	0.85
S.PLATTE BELOW FT. MORGAN			XX		XX		XX		XX		XX		5	1.00
SOUTH PLATTE RIVER AT BALZAC			XX		XX		XX				XX		5	0.80
SOUTH PLATTE BELOW STERLING			XX		XX		XX		XX		XX		5	1.00
SOUTH PLATTE RIVER AT JULESBURG,	XX	XX	XX	XX		X	XX	XX	XX	XX	XX	XX	17	1.00
CACHE LA POUDRE NEAR FT. COLLINS	XX	XX	XX	XX			X	XX	XX	XX	0	XX	20	0.75
CACHE LA POUDRE NEAR GREELEY	XX	XX	XX	XX	0		XX	XX	XX	XX	XX	XX	20	0.90
BIG THOMPSON NEAR MOUTH	XX	XX	XX	XX	0		XX	XX	XX	XX	XX	XX	21	0.86
LITTLE THOMPSON NEAR BERTHOUD	XX		XX				XX		XX		XX		6	0.83
LITTLE THOMPSON NEAR MILLIKEN	XX	XX	XX	XX	0	X	XX	XX	XX	XX	XX	XX	19	0.95
ST VRAIN BELOW LONGMONT		X	X	0	X			XX	XX	X			13	0.77
ST. VRAIN NEAR MOUTH	X		XX				0		X		X		6	0.83
LEFT HAND CREEK NEAR NIWOT	XX		XX		X				X		XX		6	0.83
CLEAR CREEK NEAR MOUTH	X	X	X	X						0	X		12	0.67
BEAR CREEK AT JEFFERSON-DENVER COUNTY LI	0	0	X										12	0.42

70301 DISS SOL

****

ARKANSAS RIVER NEAR PUEBLO, CO.												X	5	0.20
ARKANSAS RIVER NEAR AVONDALE, CO				0								X	7	0.29
ARKANSAS RIVER NEAR MERESTA, CO.				X						0		X	7	0.43
ARKANSAS RIVER AT LA JUNTA, CO.				XX									1	1.00
ARKANSAS RIVER AT LAS ANIMAS, CO				XX									1	1.00
ARKANSAS RIVER BELOW JOHN MARTIN	XX	XX	XX	XX	XX			X	XX				9	1.00
ARKANSAS RIVER NEAR COOLIDGE, KA		XX	XX	XX	XX	XX	XX	XX	XX		XX	XX	10	1.00
FOUNTAIN CREEK NEAR PINON, CO.						X						X	2	1.00
LITTLE FOUNTAIN CREEK NEAR FOUNT				0		X							5	0.40
COLORADO RIVER NEAR GLENWOOD SPR	0												11	0.09
COLORADO RIVER NEAR DE BEQUE, CO	X		X							0			7	0.43
COLORADO RIVER NEAR CAMEO, CO.			X					0		X	X	X	8	0.63
COLORADO RIVER BELOW COLORADO-UT	X	0	X	0				X				X	9	0.67
SAN JUAN RIVER AT SHIPROCK, NM	0	0	0					0		0			12	0.42
SAN JUAN R AT FOUR CORNERS, CO.	X	X							X		X		12	0.33
MCELMO CREEK NEAR COLORADO-UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
MANCOS RIVER NEAR CORTEZ, CO.	XX	XX	XX										5	0.60
LA PLATA RIVER AT COLORADO-NEW M	XX	XX	XX				X	X	XX	XX	XX	XX	12	0.75
WHITE RIVER ABOVE RANGELY, CO.	0		X					0			X		9	0.44
WHITE R. NR. COLO. STATE LINE, UT.									0	0			6	0.33
YELLOW CREEK NEAR WHITE RIVER, C							XX	XX	XX	XX			4	1.00
PICEANCE CREEK AT WHITE RIVER, CO.	XX	XX	XX	X	X	XX	XX	XX	XX	XX	XX	XX	12	1.00
LITTLE SNAKE RIVER NEAR LILY, CO									X	X			11	0.18
WILSON CREEK NEAR AXIAL, CO.				XX	X		XX		XX		XX	XX	8	1.00
FOIDEL CREEK AT MOUTH, NEAR OAK			X			XX		XX			XX	XX	7	0.71
SAN MIGUEL RIVER AT NATURITA, CO										0	0		10	0.30
SAN MIGUEL RIVER AT URAVAN, CO.				X									2	0.50
SAN MIGUEL RIVER BELOW URAVAN, C				XX						XX			3	0.67

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
SALT CREEK NEAR MACK, CO.			XX		XX		XX				XX		4	1.00
EAST SALT CREEK NEAR MACK, CO.			XX		X		XX				XX		4	1.00
WEST SALT CREEK NEAR MACK, CO.	X		XX	XX									3	1.00
ADOBE CREEK NEAR FRUITA, CO.			XX		XX		X				XX		4	1.00
GUNNISON RIVER NEAR GRAND JUNCTI			0					X		XX	X		10	0.50
SPRING CREEK NEAR MONTROSE, CO.	XX		XX					X		X	XX		8	0.63
UNCOMPAHGRE RIVER AT DELTA, CO.	XX			0				XX			XX		4	1.00
ROAN CREEK NEAR DE BEQUE, CO.	XX		X		0	X	X	XX		XX			10	0.80
PARACHUTE CREEK NEAR GRAND VALLE			0							0	X		8	0.38
PARACHUTE CREEK AT GRAND VALLEY.	X		XX	X			X	XX		XX			7	0.86
EAGLE RIVER AT GYPSUM, CO.	X		X							X	X	X	11	0.45
SOUTH PLATTE RIVER NEAR HELDONA.	XX	XX	XX	XX	X		XX	XX	XX	XX	XX	XX	12	0.92
SOUTH PLATTE RIVER AT JULESBURG.	XX	XX	XX	XX		X	XX	XX	XX	XX	XX	XX	12	1.00
BIJOU CREEK NEAR FT. MORGAN, CO.	XX	XX	XX	XX	XX	XX	XX	XX	XX				9	1.00
CACHE LA POUDRE RIVER BELOW FORT							X						12	0.08
CACHE LA POUDRE RIVER AT TIMNATH	XX	XX	XX	XX			XX	XX	XX				9	0.78
CACHE LA POUDRE RIVER NEAR GREEL	XX	XX	XX	XX	X		XX	XX	XX	XX	XX	XX	12	0.92
BIG THOMPSON RIVER AT MOUTH, NEAR LA SAL	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	12	0.92
ST. VRAIN CREEK AT MOUTH, NEAR P	X	X	XX	XX			XX	X	XX	X	X	X	12	0.83
LEFT HAND CREEK AT MOUTH, AT LON	XX	XX		XX	XX		X		X				9	0.67
00095 CNDUCTVY														
**********														
ARKANSAS RIVER NEAR PUEBLO	XX												5	0.20
ARKANSAS RIVER NEAR PUEBLO, CO.												X	11	0.09
ARKANSAS RIVER NEAR AVONDALE, CO				X	X					0		X	15	0.60
ARKANSAS RIVER NEAR NEPESTA, CO.				X	0					X		X	15	0.67
ARKANSAS RIVER NEAR NEPESTA	X	X	X	X	0						0	X	22	0.50
ARKANSAS AT CATLIN CANAL HDGT	X		X		X						X		6	0.67
ARKANSAS RIVER NEAR LA JUNTA	XX	XX	XX	XX	X					X	X		13	0.85
ARKANSAS RIVER AT LA JUNTA, CO.				X									1	1.00
ARKANSAS RIVER AT LAS ANIMAS	XX		XX		XX					XX	XX		6	0.83
ARKANSAS RIVER AT LAS ANIMAS, CO		XX	XX	XX	XX		0	XX	XX				15	0.93
ARKANSAS RIVER BELOW JOHN MARTIN	XX	XX	XX	XX	XX			X	XX				8	1.00
ARKANSAS RIVER AT LAMAR, COLO	XX		XX		XX	X	X	XX	XX	XX	XX	XX	16	0.94
ARKANSAS RIVER NEAR COOLIDGE, KA		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	21	1.00
ARKANSAS RIVER AT LAS ANIMAS	XX		XX		XX				XX		XX		6	0.83
PURGATOIRE RIVER BELOW TRINIDAD	XX		XX		XX		XX		XX		XX		6	1.00
PURGATOIRE RIVER NEAR LAS ANIMAS	XX		XX		XX		XX		XX		XX		6	1.00
APISHAPA RIVER NEAR AGUILER	0		X		X		X		X				5	0.83
HUERFANO RIVER AT HIGHWAY 85-87	X		XX		X		X		X		X		6	1.00
CUCHARAS RIVER BELOW WALSENBURG	XX		XX		XX		XX		X		XX		6	1.00
FOUNTAIN CREEK AT COLORADO SPRIN	0											0	20	0.15
FOUNTAIN CREEK BELOW COLORADO SP	0	X		XX								0	24	0.38
FOUNTAIN CREEK NEAR PINON, CO.				0	X	X						X	5	1.00
FOUNTAIN CREEK AT PUEBLO	XX		XX		XX		XX		XX		X		6	1.00
LITTLE FOUNTAIN CREEK NEAR FOUNT						X		XX					12	0.50
COLORADO RIVER NEAR GLENWOOD SPR	0												41	0.05
COLORADO RIVER AT NEW CASTLE	X	X	X					0	0	0	0	0	23	0.47
COLORADO RIVER NEAR DE BEQUE, CO	X		X							X			8	0.38

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
COLORADO RIVER NEAR CAMEO, CO.			X					X		X	X	X	9	0.56
COLORADO RIVER NEAR CAMEO	X		X						X		0		5	0.80
COLORADO RIVER NEAR LOMA	X	X	X					X	X	X	X		22	0.73
COLORADO RIVER BELOW COLORADO-UT	X	0	0					X					8	0.50
SAN JUAN R AT FOUR CORNERS, CO	0	0							0	0	X		12	0.42
MCELMO CREEK WEST OF CORTEZ	XX		XX		XX			XX	XX				5	1.00
MCELMO CREEK NEAR COLORADO-UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00
MANCOS RIVER NEAR CORTEZ, CO.	XX	XX	X										5	0.60
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX		X		0			X	XX				5	1.00
LA PLATA R NORTH OF LA PLATA			XX				X		X		X		5	0.80
LA PLATA RIVER AT COLORADO-NEW M	XX	XX	X				0	X	X	X	X	XX	12	0.75
GREEN RIVER AB COL. UTAH LINE							0						6	0.17
WHITE RIVER BELOW PICEANCE CRK.			0										6	0.17
WHITE RIVER ABOVE RANGELY, CO.			0								0		11	0.18
WHITE RIVER AT RANGELY			0										6	0.17
YELLOW CREEK NEAR WHITE RIVER, C	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX			10	1.00
PICEANCE CREEK AT WHITE RIVER, CO.	XX	XX	XX	X	X	XX	XX	XX	XX	XX	XX	XX	17	1.00
LITTLE SNAKE RIVER NEAR LILY, CO									X	X			11	0.18
WILSON CREEK NEAR AXTAL, CO.				XX	0		X		XX		XX	XX	8	1.00
FOIDEL CREEK AT MOUTH, NEAR OAK			X			XX		XX			X	X	7	0.71
DOLORES RIVER ABOVE CONFLUENCE WITH SAN			XX						XX	XX	XX		7	0.57
DOLORES RIVER AT GATEWAY			XX				XX		XX		XX		5	0.80
SAN MIGUEL RIVER AT NATURITA, CO										X			11	0.18
SAN MIGUEL RIVER AT URAVAN, CO.	0	X						X					8	0.50
SAN MIGUEL RIVER BELOW URAVAN, C	X	X		0				X		XX	X		11	0.64
SALT CREEK NEAR MACK, CO.			XX		XX		XX				XX		4	1.00
EAST SALT CREEK NEAR MACK, CO.			XX		X		XX				XX		4	1.00
WEST SALT CREEK NEAR MACK, CO.	X		X	XX									3	1.00
ADOBE CREEK NEAR FRUITA, CO.			XX		XX		X				XX		4	1.00
GUNNISON RIVER NEAR GRAND JUNCTI								X		X	X		10	0.40
SPRING CREEK NEAR MONTROSE, CO.	X		X					0		0	X		9	0.56
UNCOMPAHGRE RIVER AT RIDGWAY			0										5	0.20
UNCOMPAHGRE RIVER AT DELTA						0	X	XX	XX	XX	XX	XX	15	0.87
UNCOMPAHGRE RIVER AT DELTA, CO.	XX		XX		X	X	XX	XX			XX		11	0.82
SURFACE CREEK AT ORCHARD CITY			X										6	0.17
N FK OF GUNNISON BELOW HOTCHKISS	X								X		X		5	0.60
ROAN CREEK NEAR DE BEQUE, CO.	X		X	0		0	X	XX		XX		X	11	0.82
ROAN CREEK NEAR DE BEQUE					0		XX		XX		X		4	1.00
PARACHUTE CREEK NEAR GRAND VALLE										X	X		8	0.25
PARACHUTE CREEK AT GRAND VALLEY.	X		X				X	X		XX			7	0.71
EAGLE RIVER AT GYPSUM	0	X	X						0				12	0.58
EAGLE RIVER AT GYPSUM, CO.	X		0							X	0	X	41	0.78
NORTH FORK REPUBLICAN RIVER NEAR LAIRD											X		4	0.25
ARICKAREE RIVER NEAR WRAY, COLO			X				XX				XX		5	0.60
SOUTH PLATTE AT HENDERSON	X	X	X	X	X		0	0	X	X	X	X	21	0.81
SOUTH PLATTE RIVER NEAR PLATTVILLE							0				X		2	1.00
SOUTH PLATTE NEAR KERSEY	XX	XX	XX	X	X		XX	X	XX	X	X	X	19	0.89
SOUTH PLATTE RIVER NEAR WELDONA,	XX	XX	XX	X	0		X	X	XX	XX	X	XX	17	0.92
S.PLATTE BELOW FT. MORGAN			XX		XX		XX		X		X		5	1.00
SOUTH PLATTE RIVER AT BALZAC			XX		XX		XX		X		XX		5	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
SOUTH PLATTE BELOW STERLING			XX		XX		XX		XX		XX		5	1.00
SOUTH PLATTE RIVER AT JULESBURG.	XX	XX	XX	XX	X	0	X	XX	XX	XX	X	XX	14	1.00
BIJOU CREEK NEAR FT. MORGAN, CO.	XX	XX	XX	XX	X	XX	XX	X	XX				9	1.00
CACHE LA POUDRE RIVER BELOW FORT							0						14	0.07
CACHE LA POUDRE RIVER AT TIMNATH	XX	XX	XX	XX			XX	X	XX		X		11	0.82
CACHE LA POUDRE NEAR FT. COLLINS	XX	XX	XX	XX			X	XX	XX	X		X	19	0.74
CACHE LA POUDRE RIVER NEAR GREEL	XX	XX	XX	XX	0		XX	X	XX	XX	X	XX	17	0.92
CACHE LA POUDRE NEAR GREELEY	XX	XX	XX	XX	X		XX	XX	XX	X	X	XX	19	0.89
BIG THOMPSON RIVER AT MOUTH, NEAR LA SAL	XX	XX	XX	XX	XX		XX	X	X	XX	XX	XX	17	0.92
BIG THOMPSON NEAR MOUTH	XX	XX	XX	XX			XX	X	XX	XX	X	XX	21	0.86
LITTLE THOMPSON NEAR BERTHOUD	XX		XX				XX		XX		XX		6	0.83
LITTLE THOMPSON NEAR MILLIKEN	XX	XX	XX	XX		0	XX	XX	XX	XX	XX	XX	21	0.90
ST. VRAIN BELOW LONGMONT		X	X		X			XX	X	X			13	0.69
ST. VRAIN NEAR MOUTH	X						0		X		X		6	0.67
ST. VRAIN CREEK AT MOUTH, NEAR P	X	X	X	X			X	X	XX	X	X	X	17	0.83
BOULDER CR. AT BLDR WELD CO LINE			0										20	0.10
LEFT HAND CREEK NEAR NIWOT	X		X		X		0		0		X		6	1.00
LEFT HAND CREEK AT MOUTH, AT LON	X	XX		XX	X		X		X				9	0.67
CLEAR CREEK NEAR MOUTH	X	X	X	X									12	0.50
BEAR CREEK AT JEFFERSON-DENVER COUNTY LI	0	0	X										12	0.33
TURKEY CREEK NEAR MORRISON, CO.	XX						X	X					5	0.80

00070 TURB

NORTH PLATTE RIVER NEAR NORTHGATE, CO.													12	0.0
S PLATTE @ 60TH AVE MDSDD NO.1					X								40	0.10
S PLATTE @ 88TH AVE MDSDD NO.1				0	X	XX							50	0.30
SAND CR @ BURLTN DITCH MDSDD NO1		XX	X	XX	XX	XX							48	0.67

00530 RESIDUE

ARKANSAS RIVER AT PORTLAND, CO.						X		X					8	0.25
ARKANSAS RIVER NEAR AVONDALE, CO				XX		XX		XX					8	0.50
ARKANSAS RIVER NEAR NEPESTA, CO.				XX	X	XX		XX					8	0.63
ARKANSAS RIVER NEAR NEPESTA		X	XX	XX	XX	XX	XX	XX			X		21	0.67
ARKANSAS AT CATLIN CANAL HDGT					XX		X				X		6	0.50
ARKANSAS RIVER NEAR LA JUNTA		X	XX	XX	XX		XX				XX		13	0.69
ARKANSAS RIVER AT LAS ANIMAS							XX						6	0.17
ARKANSAS RIVER AT LAMAR, COLO			X			X	0	X	X			XX	16	0.44
ARKANSAS RIVER AT LAS ANIMAS							XX						6	0.17
PURGATOIRE RIVER NEAR SEGUNDO					XX		X				X		6	0.50
PURGATOIRE RIVER BELOW TRINIDAD					0		XX						6	0.33
PURGATOIRE RIVER NEAR LAS ANIMAS							X						6	0.17
HUERFANO RIVER AT HIGHWAY 85-87	XX				XX		XX		XX		XX		6	0.83
CUCHARAS RIVER BELOW WALSENBURG	XX								XX				6	0.33
FOUNTAIN CREEK NEAR MANITOU			XX										6	0.17
FOUNTAIN CREEK NEAR COLORADO SPR					XX								9	0.11
FOUNTAIN CREEK AT COLORADO SPRIN		XX	XX		XX		0	XX	0			XX	10	0.80
FOUNTAIN CREEK BELOW COLORADO SP		XX	XX	XX	XX	X	X	XX	XX				24	0.67
FOUNTAIN CREEK NEAR PINON, CO.				XX	X							XX	4	0.75

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
FOUNTAIN CREEK AT PUEBLO			XX		X						XX		6	0.50
LITTLE FOUNTAIN CREEK NEAR FOUNT				XX	X	XX							4	0.75
MONUMENT CREEK AT PIKEVIEW, CO.		XX	XX	X	XX		XX					X	10	0.70
COLORADO RIVER NEAR DOTSERO					XX								23	0.13
COLORADO RIVER AT NEW CASTLE				XX	X								23	0.17
COLORADO RIVER NEAR CAMEO			X										5	0.20
COLORADO RIVER NEAR LOMA		X	XX	XX	XX	XX	X	X					22	0.50
SAN JUAN ABOVE NAVAJO RESERVOIR			XX										6	0.17
SAN JUAN RIVER AT SHIPROCK, NM	XX		XX	XX	XX	X	0	0	XX	XX			11	0.82
MCELMO CREEK WEST OF CORTEZ	X		XX		XX			XX					5	0.80
MANCOS RIVER AT MANCOS					XX								5	0.20
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX		XX		XX								5	0.60
LA PLATA R NORTH OF LA PLATA					XX								5	0.20
ANIMAS RIVER NEAR BONDAD, COL.			XX										5	0.20
FLORIDA AT CON. WITH ANIMAS			XX										5	0.20
LOS PINOS RIVER NEAR LABOCA			XX										5	0.20
PIEDRA RIVER NE OF ARBOLES, COLO			XX										6	0.17
NAVAJO RIVER NEAR CHROMO					X								5	0.20
WHITE RIVER BELOW PICEANCE CRK.			XX		XX								6	0.33
WHITE RIVER AT RANGELY			XX		XX		0						6	0.50
YAMPA RIVER AT HAYDEN				XX									10	0.10
YAMPA BELOW LITTLE SNAKE RIVER			XX		XX								6	0.33
LITTLE SNAKE ABOVE LILY			XX										2	0.50
DOLORES RIVER ABOVE CONFLUENCE WITH SAN			XX		XX	XX							6	0.50
DOLORES RIVER AT GATEWAY			XX										4	0.25
SAN MIGUEL NEAR NORWOOD													5	0.0
GUNNISON RIVER NEAR DELTA					0								5	0.20
GUNNISON SOUTHEAST OF GRD JUNCT			XX	XX									7	0.43
UNCOMPAHGRE RIVER AT DELTA					XX	XX	XX	XX		X			14	0.71
NORTH FORK GUNNISON RIVER NEAR BOWIE					X								4	0.25
N FK OF GUNNISON BELOW HOTCHKISS					X								4	0.25
ROAN CREEK NEAR DE BEQUE					XX		XX		0		X		4	1.00
ROARING FORK AT MOUTH				XX	X								16	0.19
CRYSTAL RIVER AT REDSTONE					XX								4	0.25
CRYSTAL RIVER NEAR MOUTH					XX								7	0.14
EAGLE RIVER AT GYPSUM			X	XX	X								12	0.33
BEAVER CREEK AT AVON								X					8	0.13
SNAKE RIVER BELOW KEYSTONE									X				4	0.25
NORTH FORK REPUBLICAN RIVER NEAR LAIRD			0										4	0.25
ARICKAREE RIVER NEAR WRAY, COLO					0				XX				5	0.40
SOUTH PLATTE AT HENDERSON				0	0	XX							21	0.14
SOUTH PLATTE RIVER NEAR PLATTVILLE							0						3	0.33
SOUTH PLATTE NEAR KERSEY					XX	XX	X	X					20	0.35
S.PLATTE BELOW FT. MORGAN													5	0.0
SOUTH PLATTE RIVER AT BALZAC							X		0				5	0.40
CACHE LA POUDRE NEAR GREELEY					XX	X	X	X					20	0.30
BIG THOMPSON NEAR MOUTH					XX	XX	XX	XX					21	0.43
LITTLE THOMPSON NEAR BERTHOUD					X								6	0.17
LITTLE THOMPSON NEAR MILLIKEN					XX	XX	XX	XX	X				21	0.57
ST VRAIN BELOW LONGMONT								XX					13	0.08

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
ST. VRAIN NEAR MOUTH					XX		X		X				6	0.50
BOULDER CR. AT BLDR WELD CO LINE					X	X		XX					20	0.15
CLEAR CREEK NEAR MOUTH			X										12	0.08
BEAR CREEK AT\JEFFERSON-DENVER COUNTY L					XX								12	0.08
70299 RES-SUSP														
**********														
SAN MIGUEL RIVER AT URAVAN, CO.		X				XX							6	0.33
SAN MIGUEL RIVER BELOW URAVAN, C						0							6	0.17
80154 SUSP SED														
**********														
ARKANSAS RIVER AT PORTLAND, CO.			XX			XX	XX	X					21	0.29
ARKANSAS RIVER NEAR PORTLAND, CO		0	XX			XX	XX	XX	X				17	0.59
ARKANSAS RIVER NEAR COOLIDGE, KA		XX	XX		XX	X	XX	XX	0				14	0.79
COLORADO RIVER NEAR DE BEQUE, CO				XX			XX	XX					5	0.60
SAN JUAN RIVER AT SHIPROCK, NM	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	19	1.00
SAN JUAN R AT FOUR CORNERS, CO.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX			16	1.00
MCELMO CREEK NEAR COLORADO-UTAH	0		XX	XX	XX	XX	XX	XX	XX	XX	XX		12	0.83
LA PLATA RIVER AT COLORADO-NEW M		XX	XX	XX	XX	X							12	0.42
WHITE RIVER BELOW MEEKER, CO.					XX	XX							4	0.50
WHITE RIVER ABOVE RANGELY, CO.			XX	XX	XX	XX	XX	X	X				28	0.75
WHITE R. NR. COLO. STATE LINE, UT.		X		XX		XX	XX	XX					8	0.88
YAMPA RIVER BELOW DIVERSION, NEA				XX	X								11	0.18
YAMPA RIVER BELOW CRAIG, CO.,				XX	XX	X							11	0.27
YAMPA RIVER NEAR MAYBELL, CO.				XX	XX	X							9	0.44
LITTLE SNAKE RIVER NEAR LILY, CO		XX	XX	XX	XX	XX	X	X	X	XX	XX		58	0.69
WILLIAMS FORK AT MOUTH, NEAR HAM		XX		XX	XX	XX							11	0.36
FOIDEL CREEK AT MOUTH, NEAR OAK			X										1	1.00
SAN MIGUEL RIVER AT NATURITA, CO					X	X							10	0.30
GUNNISON RIVER NEAR GRAND JUNCTI			XX	XX									6	0.33
SPRING CREEK NEAR MONTROSE, CO.				XX	XX	XX	XX						9	0.44
NORTH FORK GUNNISON RIVER NEAR S				XX	XX			XX					9	0.33
PARACHUTE CREEK NEAR GRAND VALLE				XX	XX								9	0.33
PARACHUTE CREEK AT GRAND VALLEY,				XX									1	1.00
LITTLE GRIZZLY CREEK ABOVE HERRO						X	XX						8	0.25
RIO GRANDE NEAR LOBATOS, CO.				XX	XX	XX	X		XX				10	0.50
SOUTH PLATTE RIVER AT JULESBURG,		XX	XX	0						X	XX	X	7	0.86
LEFT HAND CREEK AT MOUTH, AT LON	X		XX		X	XX	XX	X					9	0.67
00940 CHLORIDE														
**********														
YELLOW CREEK NEAR WHITE RIVER, C									0				10	0.10
DOLORES RIVER ABOVE CONFLUENCE WITH SAN			XX						XX	XX	XX		7	0.57
DOLORES RIVER AT GATEWAY							XX		XX		XX		5	0.60
EAST SALT CREEK NEAR MACK, CO.											0		4	0.25
00945 SULFATE														
**********														
ARKANSAS RIVER NEAR PUEBLO	XX												5	0.20

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
ARKANSAS RIVER NEAR PUEBLO, CO.												XX	7	0.14
ARKANSAS RIVER NEAR AVONDALE, CO				X	X							X	9	0.44
ARKANSAS RIVER NEAR NEPESTA, CO.				X	X					0		X	9	0.56
ARKANSAS RIVER NEAR NEPESTA	XX		X		X						X		6	0.67
ARKANSAS AT CATLIN CANAL HDGT	XX		XX		X				0				5	0.80
ARKANSAS RIVER NEAR LA JUNTA	XX		XX		XX				XX		XX		6	0.83
ARKANSAS RIVER AT LA JUNTA, CO.				XX									1	1.00
ARKANSAS RIVER AT LAS ANIMAS	XX		XX		XX				XX		XX		6	0.83
ARKANSAS RIVER AT LAS ANIMAS, CO				XX									1	1.00
ARKANSAS RIVER BELOW JOHN MARTIN	XX	XX	XX	XX	XX			XX	XX				9	1.00
ARKANSAS RIVER AT LAMAR, COLO					XX		X		XX		XX		4	1.00
ARKANSAS RIVER NEAR COOLIDGE, KA		XX	XX	XX	XX	XX	XX	XX	XX		XX	XX	11	1.00
ARKANSAS RIVER AT LAS ANIMAS	XX		XX		XX				XX		XX		6	0.83
PURGATOIRE RIVER BELOW TRINIDAD	XX		XX		XX		XX		XX		XX		6	1.00
PURGATOIRE RIVER NEAR LAS ANIMAS			XX				XX		XX		XX		4	1.00
APISHAPA RIVER NEAR AGUILER	0		0						0				6	0.50
HUERFANO RIVER AT HIGHWAY 85-87	XX		XX		X		X		XX		X		6	1.00
CUCHARAS RIVER BELOW WALSENBURG	XX		XX		XX		XX		X		XX		6	1.00
FOUNTAIN CREEK BELOW COLORADO SP									0				8	0.13
FOUNTAIN CREEK NEAR PINON, CO.				0	X	X						X	4	1.00
FOUNTAIN CREEK AT PUEBLO	XX		XX		XX		XX		XX		XX		6	1.00
LITTLE FOUNTAIN CREEK NEAR FOUNT				0		XX							5	0.40
COLORADO RIVER NEAR LOMA	X		0						X		X		6	0.67
COLORADO RIVER BELOW COLORADO-UT	0		0					X				0	9	0.44
SAN JUAN RIVER AT SHIPROCK, NM								0		0			12	0.17
SAN JUAN R AT FOUR CORNERS, CO	0	X							X	X	X		12	0.42
MCELMO CREEK WEST OF CORTEZ	XX		XX		XX			XX	XX				5	1.00
MCELMO CREEK NEAR COLORADO-UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00
MANCOS RIVER NEAR CORTEZ, CO.	XX	XX	XX										5	0.60
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX		XX		X				XX				5	0.80
LA PLATA R NORTH OF LA PLATA			XX				0		XX		XX		5	0.80
LA PLATA RIVER AT COLORADO-NEW M	XX	XX	XX				X	X	XX	XX	XX	XX	12	0.75
ANIMAS RIVER NEAR SILVERTON	X		X										6	0.33
GREEN RIVER AR COL. UTAH LINE	0												6	0.17
WHITE RIVER ABOVE RANGELY, CO.			0										11	0.09
YELLOW CREEK NEAR WHITE RIVER, C	XX	X	X		XX	XX	XX	XX		XX			9	0.89
PICEANCE CREEK AT WHITE RIVER, CO.	X	X	X	0		XX	XX	X	X	XX	X	X	12	0.92
LITTLE SNAKE RIVER NEAR LILY, CO									X	X			11	0.18
WILSON CREEK NEAR AXIAL, CO.				X			X		XX		X	X	8	0.75
FOIDEL CREEK AT MOUTH, NEAR OAK			X			XX		XX			XX	XX	7	0.71
DOLORES RIVER ABOVE CONFLUENCE WITH SAN			X						XX		XX		5	0.60
DOLORES RIVER AT GATEWAY			X						XX		XX		5	0.60
SAN MIGUEL RIVER AT NATURITA, CO								0		0	0		10	0.40
SAN MIGUEL RIVER AT URAVAN, CO.				X									2	0.50
SAN MIGUEL RIVER BELOW URAVAN, C				XX						XX			3	0.67
SALT CREEK NEAR MACK, CO.			XX		XX		XX				XX		4	1.00
EAST SALT CREEK NEAR MACK, CO.			XX		X		XX				XX		4	1.00
WEST SALT CREEK NEAR MACK, CO.	XX		XX	XX									3	1.00
ADOBE CREEK NEAR FRUITA, CO.			XX		XX		X				XX		4	1.00
GUNNISON SOUTHEAST OF GRD JUNCT			X										1	1.00

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
GUNNISON RIVER NEAR GRAND JUNCTI			0					XX		XX	XX		10	0.50
SPRING CREEK NEAR MONTROSE, CO.	XX		XX				0	X		X	XX		9	0.67
UNCOMPAHGRE RIVER AT RIDGWAY			0										4	0.25
UNCOMPAHGRE RIVER AT DELTA					0		X		XX		XX		4	1.00
UNCOMPAHGRE RIVER AT DELTA, CO.	XX			0				XX			XX		4	1.00
SURFACE CREEK AT ORCHARD CITY			X										6	0.17
N FK OF GUNNISON BELOW HOTCHKISS	X								XX		X		5	0.60
ROAN CREEK NEAR DE BEQUE, CO.	X		X				X	X		XX			10	0.60
ROAN CREEK NEAR DE BEQUE							X		XX		XX		4	0.75
PARACHUTE CREEK AT GRAND VALLEY.	X		XX				0	X		X			7	0.71
EAGLE RIVER AT GYPSUM, CO.	0		0							0			11	0.27
CROSS CREEK AB CON. WITH EAGLE	0										X		6	0.33
BLUE RIVER ABOVE DILLON RES.											X		6	0.17
NORTH FORK REPUBLICAN RIVER NEAR LAIRD											X		4	0.25
ARICKAREE RIVER NEAR WRAY, COLO			X				XX				XX		5	0.60
SOUTH PLATTE RIVER NEAR PLATTVILLE											0		3	0.33
SOUTH PLATTE NEAR KERSEY	XX		XX		X		XX		XX		X		6	1.00
SOUTH PLATTE RIVER NEAR WELDONA.	XX	XX	XX	XX	0		X	XX	XX	XX	XX	XX	12	0.92
S.PLATTE BELOW FT. MORGAN			XX		XX		XX		XX		XX		5	1.00
SOUTH PLATTE RIVER AT BALZAC			XX		XX		XX		XX		XX		5	1.00
SOUTH PLATTE BELOW STERLING			XX		XX		XX		XX		XX		5	1.00
SOUTH PLATTE RIVER AT JULESBURG.	XX	XX	XX	XX		X	XX	XX	XX	XX	XX	XX	12	1.00
BIJOU CREEK NEAR FT. MORGAN, CO.	XX	XX	XX	XX	XX	XX	XX	XX	XX				9	1.00
CACHE LA POUDRE RIVER BELOW FORT							X						12	0.08
CACHE LA POUDRE RIVER AT TIMNATH	XX	XX	XX	XX			XX	XX	XX				9	0.78
CACHE LA POUDRE NEAR FT. COLLINS	XX		XX						XX				6	0.50
CACHE LA POUDRE RIVER NEAR GREEL	XX	XX	XX	XX	X		XX	XX	XX	XX	XX	XX	12	0.92
CACHE LA POUDRE NEAR GREELEY	XX		XX		X		XX		XX		XX		6	1.00
BIG THOMPSON RIVER AT MOUTH, NEAR LA SAL	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	12	0.92
BIG THOMPSON NEAR MOUTH	XX		XX		X		XX		XX		XX		6	1.00
LITTLE THOMPSON NEAR BERTHOUD	XX		XX				XX		XX		XX		6	0.83
LITTLE THOMPSON NEAR MILLIKEN	XX		XX				XX		XX		XX		6	1.00
ST. VRAIN BELOW LONGMONT			X		0				XX				5	0.60
ST. VRAIN NEAR MOUTH	X		XX						X		X		4	0.67
ST. VRAIN CREEK AT MOUTH, NEAR P	X	X	XX	XX			XX	X	XX	X	X	X	12	0.83
LEFT HAND CREEK NEAR NIWOT	XX		XX		X				X		XX		6	0.83
LEFT HAND CREEK AT MOUTH, AT LON	XX	XX		XX	XX		X		XX				9	0.67
BEAR CREEK AT JEFFERSON-DENVER COUNTY LI			0										7	0.14

00619 NH3+NH4-
****
S PLATTE @ 60TH AVE MDSDD NO.1 — XX — 1 — 1.00

00608 NH3+NH4-
****
CACHE LA POUDRE RIVER AT TIMNATH — X — 9 — 0.11

00610 NH3+NH4-
****
ARKANSAS RIVER NEAR CANON CITY — X — 5 — 0.20

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

COLORADO

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
ARKANSAS RIVER NEAR NEPESTA		0											22	0.05
FOUNTAIN CREEK BELOW COLORADO SP	XX	XX	XX	X	XX		X	XX		0	XX		24	0.63
FOUNTAIN CREEK AT PUEBLO			XX										6	0.17
COLORADO RIVER NEAR CAMEO							XX						5	0.20
NAVAJO RIVER NEAR CHROMO					XX								3	0.33
WHITE RIVER BELOW PICEANCE CRK.							XX						5	0.20
DOLORES RIVER AT GATEWAY									XX		X		5	0.40
UNCOMPAHGRE RIVER AT DELTA					XX								15	0.07
CRYSTAL RIVER AT REDSTONE									XX				4	0.25
RIO GRANDE AT ALAMOSA					XX								3	0.33
SOUTH PLATTE AT HENDERSON	X	XX	XX		X			XX				XX	20	0.55
SOUTH PLATTE RIVER NEAR PLATTVILLE									X				3	0.33
SOUTH PLATTE NEAR KERSEY		XX										XX	21	0.14
CACHE LA POUDRE NEAR FT. COLLINS				0									19	0.05
CACHE LA POUDRE NEAR GREELEY			X									XX	20	0.15
BIG THOMPSON NEAR MOUTH												X	21	0.05
ST VRAIN BELOW LONGMONT		X	XX										13	0.23
BOULDER CR. AT BLDR WELD CO LINE			XX										20	0.15
CLEAR CREEK NEAR MOUTH	X		X										12	0.25

00720 CYANIDE

****

ARKANSAS R. BELOW LEADVILLE, COL													5	0.0
ARKANSAS RIVER NEAR CANON CITY													4	0.0
ARKANSAS RIVER NEAR PUEBLO													5	0.0
ARKANSAS RIVER NEAR NEPESTA	XX												6	0.17
ARKANSAS AT CATLIN CANAL HDGT	XX										X		6	0.33
ARKANSAS RIVER NEAR LA JUNTA			X										6	0.17
ARKANSAS RIVER AT LAS ANIMAS													6	0.0
ARKANSAS RIVER AT LAMAR, COLO													6	0.0
ARKANSAS RIVER AT LAS ANIMAS													6	0.0
PURGATOIRE RIVER NEAR SEGUNDO													6	0.0
PURGATOIRE RIVER BELOW TRINIDAD							X				X		6	0.33
PURGATOIRE RIVER NEAR LAS ANIMAS													6	0.0
HUERFANO RIVER AT HIGHWAY 85-87													6	0.0
ST CHARLES ABOVE CONFLUENCE WITH N ST CH							X						6	0.17
FOUNTAIN CREEK NEAR MANITOU							XX						6	0.17
FOUNTAIN CREEK BELOW COLORADO SP	X												6	0.17
HALFMOON CREEK NEAR MALTA, CO.	XX					XX							3	0.67
COLORADO RIVER NEAR HOT SULFUR SPRINGS	XX												5	0.20
COLORADO RIVER NEAR DOTSERO					X								5	0.20
SAN JUAN RIVER BELOW PAGOSA													3	0.0
MANCOS RIVER 3 MILES NORTH OF STATE LINE													5	0.0
ANIMAS RIVER ABOVE DURANGO	X												3	0.33
PIEDRA RIVER NE OF ARBOLES, COLO													6	0.0
NAVAJO RIVER NEAR CHROMO					XX		XX						4	0.50
WHITE RIVER AT RANGELY									XX				5	0.20
YAMPA RIVER AT MILNER									X				6	0.17
YAMPA BELOW LITTLE SNAKE RIVER													4	0.0
DOLORES RIVER AT GATEWAY							XX						5	0.20

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
SAN MIGUEL NEAR NORWOOD							XX						4	0.25
SAN MIGUEL RIVER BELOW URAVAN, C										XX			1	1.00
GUNNISON RIVER NEAR DELTA					X								6	0.17
UNCOMPAHGRE RIVER AT DELTA							X						4	0.25
ROAN CREEK NEAR DE BEQUE					X				X				4	0.50
EAGLE RIVER AT REDCLIFF									X				4	0.25
BEAVER CREEK AT AVON					XX								4	0.25
GORE CREEK AT BIGHORN SUBDIV.											X		6	0.17
GORE CREEK AT MOUTH					X								6	0.17
CROSS CREEK AB CON. WITH EAGLE					X						XX		6	0.33
BLUE RIVER ABOVE DILLON RES.					XX						XX		5	0.40
BLUE RIVER BELOW DILLON RES.					XX								5	0.20
TEN MILE CREEK AT FRISCO					XX								3	0.33
MICHIGAN RIVER AT WALDEN													5	0.20
RIO GRANDE RIVER NEAR CREEDE											XX		4	0.25
RIO GRANDE AT ALAMOSA					XX								5	0.20
CONEJOS RIVER NEAR MAGOTE					XX								2	0.50
SAGUACHE CREEK NEAR SAGUACHE											X		4	0.25
SOUTH PLATTE RIVER NEAR TOWN OF SOUTH PL	X								X				6	0.33
SOUTH PLATTE AT HENDERSON			X						X		XX		5	0.60
SOUTH PLATTE RIVER NEAR PLATTVILLE											XX		3	0.33
SOUTH PLATTE NEAR KERSEY													5	0.0
S.PLATTE BELOW FT. MORGAN													5	0.0
SOUTH PLATTE RIVER AT BALZAC											X		5	0.20
SOUTH PLATTE BELOW STERLING											X		4	0.25
CACHE LA POUDRE ABOVE FT COLLINS	X												4	0.25
CACHE LA POUDRE NEAR GREELEY					X								5	0.20
BIG THOMPSON NEAR LOVELAND	XX												5	0.20
BIG THOMPSON NEAR MOUTH													5	0.0
ST. VRAIN BELOW LONGMONT	X												5	0.20
ST. VRAIN NEAR MOUTH	X												5	0.20
BOULDER CR. AT BLDR WELD CO LINE	X												6	0.17
CLEAR CREEK AT WHEAT RIDGE, COLO											X		6	0.17
01034 CHROMIUM														
**********														
ARKANSAS RIVER NEAR NEDESTA, CO.								0					3	0.33
SAN JUAN RIVER AT SHIPROCK, NM		X											4	0.25
01147 SELENIUM														
**********														
ARKANSAS RIVER AT LAMAR, COLO											X		4	0.25
FOUNTAIN CREEK AT PUEBLO									XX		X		2	1.00
COLORADO RIVER NEAR LOMA					0								4	0.25
MCELMO CREEK NEAR COLORADO-UTAH					X								2	0.50
71900 MERCURY														
**********														
YAMPA RIVER NEAR MAYBELL, CO.						X							3	0.33

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
01042 COPPER														
**********														
ARKANSAS R. BELOW LEADVILLE, COL					XX		X		X		X		6	0.67
ARKANSAS RIVER AT PORTLAND, CO.						XX							4	0.25
ARKANSAS RIVER NEAR AVONDALE, CO						O		XX					3	0.67
ARKANSAS RIVER NEAR NEPESTA, CO.								XX					3	0.33
ARKANSAS RIVER NEAR NEPESTA					X								21	0.14
PURGATOIRE RIVER NEAR SEGUNDO					O								6	0.17
HUERFANO RIVER AT HIGHWAY 85-87					X								6	0.17
FOUNTAIN CREEK NEAR PINON, CO.				XX									2	0.50
HALFMOON CREEK NEAR MALTA, CO.	X												3	0.33
SAN JUAN ABOVE NAVAJO RESERVOIR			XX										5	0.20
SAN JUAN RIVER AT SHIPROCK, NM		XX			XX								4	0.50
SAN JUAN R AT FOUR CORNERS, CO				X						XX			3	0.67
MANCOS RIVER AT MANCOS					XX								5	0.20
LA PLATA RIVER AT HIGHWAY 160					O								6	0.17
LA PLATA R NORTH OF LA PLATA					X								5	0.20
ANIMAS RIVER NEAR SILVERTON	XX				XX	XX	XX	X					12	0.58
LOS PINOS RIVER NEAR LABOCA					XX								4	0.25
VAMPA RIVER NEAR MAYBELL, CO.										X			4	0.25
LITTLE SNAKE ABOVE LILY			XX										2	0.50
LITTLE SNAKE RIVER NEAR LILY, CO			XX		XX					O			4	0.75
WILSON CREEK NEAR AXTAL, CO.					XX								4	0.25
DOLORES RIVER ABOVE CONFLUENCE WITH SAN						X							7	0.14
SAN MIGUEL NEAR NORWOOD							XX						5	0.20
GUNNISON RIVER NEAR GRAND JUNCTI		X											4	0.25
UNCOMPAHGRE RIVER AT RIDGWAY					X		X						4	0.50
EAST RIVER AT CONFL. WITH TAYLOR					O								5	0.20
SLATE RIVER BELOW CRESTED BUTTE					XX	X		XX					5	0.60
EAGLE RIVER AT TOWN OF EDWARDS				O	O								23	0.13
BEAVER CREEK AT AVON							XX			O			7	0.29
BLUE RIVER NEAR CONFLUENCE WITH COLORADO							X						5	0.20
SNAKE RIVER BELOW KEYSTONE					X		X		XX		X		4	1.00
FRASER RIVER NEAR GRANBY											Y		4	0.25
RIO GRANDE RIVER NEAR DEL NORTE											O		3	0.33
RIO GRANDE NEAR LOBATOS, CO.					X								4	0.25
S FORK RIO GRANDE R AT TOWN OF SOUTH FOR							X				X		5	0.40
SOUTH PLATTE RIVER NEAR TOWN OF SOUTH PL									X		O		6	0.33
SOUTH PLATTE AT HENDERSON						X							21	0.05
CLEAR CREEK BELOW IDAHO SPRINGS				XX	XX	XX	XX			XX			6	0.83
CLEAR CREEK ABOVE GOLDEN	O	XX	X	XX	XX	XX	XX	XX	XX	XX			17	0.94
CLEAR CREEK AT WHEAT RIDGE, COLO							XX						12	0.08
CLEAR CREEK NEAR MOUTH						XX		X					12	0.17
NORTH FORK CLEAR CREEK BELOW BLACKHAWK					XX	XX			XX				3	1.00
WEST FORK CLEAR CREEK BELOW EMPIRE					X		X						3	0.67
01051 LEAD														
**********										XX			3	0.33
SAN JUAN R AT FOUR CORNERS, CO						O							12	0.08
ANIMAS RIVER NEAR SILVERTON														

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

Reproduced from best available copy.

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
01092 ZINC														
**********														
ARKANSAS R. BELOW LEADVILLE, COL	XX		XX		XX		XX		XX		XX		6	1.00
ARKANSAS RIVER AT PORTLAND, CO.						XX							4	0.25
ARKANSAS RIVER NEAR AVONDALE, CO								X					3	0.33
ARKANSAS RIVER NEAR NEPESTA, CO.								XX					3	0.33
ARKANSAS RIVER NEAR NEPESTA				X	XX								21	0.19
ARKANSAS RIVER AT LAMAR, COLO					XX								14	0.07
PURGATOIRE RIVER NEAR SEGUNDO					XX								6	0.17
HUERFANO RIVER AT HIGHWAY 85-87					XX								6	0.17
FOUNTAIN CREEK BELOW COLORADO SP					X								24	0.04
FOUNTAIN CREEK NEAR PINON, CO.				X									2	0.50
COLORADO RIVER NEAR CAMEO	X												5	0.20
SAN JUAN RIVER AT SHIPROCK, NM		XX			X								4	0.50
SAN JUAN R AT FOUR CORNERS, CO										XX			3	0.33
ANIMAS RIVER NEAR SILVERTON	XX				XX	XX		X	XX	XX	XX		12	0.92
ANIMAS RIVER ABOVE DURANGO											0		3	0.33
WILSON CREEK NEAR AXIAL, CO.					0								6	0.17
SAN MIGUEL RIVER AT NATURITA, CO					0								1	1.00
GUNNISON SOUTHEAST OF GRD JUNCT		0											7	0.14
UNCOMPAHGRE RIVER AT RIDGWAY							0						5	0.20
EAST RIVER AT CONFL. WITH TAYLOR					X								5	0.20
SLATE RIVER BELOW CRESTED BUTTE					XX	X		XX	XX	XX			5	1.00
EAGLE RIVER AT REDCLIFF									X				4	0.25
EAGLE RIVER AT TOWN OF EDWARDS				XX	X								23	0.13
EAGLE RIVER AT GYPSUM				0									11	0.09
CROSS CREEK AB CON. WITH EAGLE	X												9	0.11
SNAKE RIVER BELOW KEYSTONE					XX		X		XX		X		4	1.00
TEN MILE CREEK AT FRISCO					X								5	0.20
RIO GRANDE NEAR WAGONWHEEL GAP					X								2	0.50
RIO GRANDE RIVER NEAR DEL NORTE					X						0		4	0.50
CLEAR CREEK BELOW IDAHO SPRINGS				XX	XX	XX	X		XX	XX			7	1.00
CLEAR CREEK ABOVE GOLDEN	XX	XX	X	X	XX		X	XX	XX	X			17	0.94
CLEAR CREEK NEAR MOUTH						X							12	0.08
NORTH FORK CLEAR CREEK BELOW BLACKHAWK					XX	XX							2	1.00
01027 CADMIUM														
**********														
ARKANSAS R. BELOW LEADVILLE, COL					XX								6	0.17
ARKANSAS RIVER NEAR PUEBLO, CO.						XX							2	0.50
SAN JUAN R AT FOUR CORNERS, CO										XX			3	0.33
MANCOS RIVER AT MANCOS					XX								5	0.20
NORTH FORK GUNNISON RIVER NEAR S											XX		4	0.25
NORTH FORK GUNNISON RIVER NEAR BOWIE					XX								4	0.25
SLATE RIVER BELOW CRESTED BUTTE					X								2	0.50
CLEAR CREEK BELOW IDAHO SPRINGS							XX						3	0.33

PROCESSING COMPLETE FOR REQUESTED PERIOD

Table 3. Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Arkansas R blw Leadville											D Cd*
Arkansas R Nr Malta				I				I		I	
Arkansas R Nr Canon City											D Cd
Arkansas R at Portland										I	
Arkansas R Abv Pueblo		I				D					D Cd*
Arkansas R Nr Avondale						D					
Arkansas R Nr Nepesta	D*	D		D							D As Cd
Arkansas R Nr Nepesta											Cu Pb*
Arkansas R Nr La Junta											D As Cd
Arkansas R blw John Martin Reservation				I*			I*				
Arkansas R at Lamar		D*									I Zn*
Arkansas R Nr Coolidge, KS		I									I Se
Purgatoire R Nr Segundo											D Cd
Purgatoire R blw Trinidad	D										D Cd
Purgatoire R Nr Las Animas											D Mg Cd
Cucharas R blw Walsenburg											I Zn
St Charles R abv N St Charles			D	D			D			D	
Fountain Cr Nr Manitou											D Cd
Fountain Cr at Colo Spgs						I					
Fountain Cr blw Colo Spgs						I*					D Cd
Fountain Cr Nr Pinon		D									
Fountain Cr at Pueblo											D Cd

Table 3 (continued). Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Monument Cr at Pikeview				D							
Halfmoon Cr Nr Malta							D				
Granby Pump Canal Nr Grand Lake		D									
Colorado R at Hot Sulphur Springs							D				
Colorado R Nr Dotsero		D		I							I_{Zn}
Colorado R at New Castle		D				D				I	I_{Zn}
Colorado R Nr Cameo											$D_{Cd\ Zn}$
Colorado R Nr Loma		I						I			
Colorado R blw CO-UT Line		I		I			I	I		I	
Mc Elmo Cr blw Cortez											D_{Cd}
Mancos R at Mancos			D								D_{Cd*}
Mancos R Nr Cortez				I*			I*			I	
La Plata R at Hwy 160						D					
Animas R Nr Silverton						I					D_{Cd}
Animas R Nr Bondad											D_{Cd}
Florida R abv Animas R						D					
Navajo R Nr Chromo											D_{C} *
Green R at CO-UT Line											D_{Cd}
White R at Meeker											D_{Cd}
White R blw Piceance Cr						D					D_{Cd}
White R at Rangely											D_{Cd}
White R Nr CO-UT Line				I							

Table 3 (continued). Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Yampa R Nr Milner	D										D_{Cd}
Yampa R blw Little Snake R											D_{Cd}
Foidel Cr at Mouth				D*							
Dolores R abv San Miguel			D*	D*				D*			
Dolores R at Gateway											D_{Cd}
San Miguel R Nr Norwood											D_{Cd}
Gunnison R Nr Delta											D_{Cd}
Gunnison R Nr Grand Jct		I		I				I		I	$D_{Cd\ Pb}$
Uncompahgre R at Ridgway											D_{Mg}
Uncompahgre R at Delta	D*		D*	I*				I		I	$D_{Cu\ Mg}$
Tomichi Cr at Gunnison			D								$D_{Cd\ Cu}$
E Taylor R abv Taylor R			D								
Taylor R at Almout			D								
Roan Cr Nr De Beque				D*							$D_{Cd\ Pb}$
Parachute Cr at Parachute		D									$D_{Pb\ Cd}$
Roaring Fork at Mouth		D				D					D_{Cd}
Eagle R at Edwards								I			D_{Cd}
Eagle R at Gypsum			D			D		I			D_{Cd}
Cross Cr abv Eagle R			D			I					$I_{Cu\ Pb}$
Gore Cr at Vail			D								
Gore Cr at Bighorn Sub.						D					
Blue R abv Dillon Res.			D			D				I	D_{Cd}

Table 3. Water Quality Trend Table

Stations and Parameters where Significant Statistical Differences were Observed.

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Blue R abv Colorado R			D			D					
N Platte R Nr Northgate										I	
Michigan R at Walden											D Cd
Little Grizzly Cr abv Hebron										I	
Rio Grande R at Alamosa											I Zn
Rio Grande R Nr Lobatos					D*	D					
S Fork Rio Grande at South Fork			D*								
Conejos R Nr Magote						D					
N Fork Republican R Nr Laird			D*	D*			D				D Mg As
Arickaree R Nr Wray	D*										I Zn
S Platte R Nr South Platte								I			D Cd
S Platte R abv Littleton	I			I							
S Platte R at 60th Ave, Denver		I* (NO_2) D (NO_3 & NO_2) D (Kjeldahl)	I*			D*				D	
S Platte R at 88th Ave, Denver		D (Kjeldahl)		D		D				D	
S Platte R at Henderson		I*									D Cd
S Platte R Nr Kersey				I*						I	D Cd Cu
S Platte R Nr Weldona				I*			I*	I		I	
S Platte R at Balzac			D*								
S Platte R blw Sterling											I Mg
Cache La Poudre Nr Fort Collins				D*		I					I Zn
Cache La Poudre Nr Greeley				I*				I		I	I Mg Zn

Table 3 (continued). Water Quality Trend Table

Stations and Parameters where Significant Statistical Differences were Observed.

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Olympus Tunnel at Lake Estes	D		D				D				
Big Thompson R at Mouth								I		I	
Little Thompson R Nr Berthond											D_{Cd}
Little Thompson R Nr Milliken		I	I*			I		I			D_{Cd}
Little Thompson R Nr Milliken											I_{Zn}
Horsetooth Res Nr Fort Collins		I	I								
St Vrain Cr blw Longmont											I_{Zn}
St Vrain Cr Nr Mouth				I*						I	$D_{Cu\ Pb}$
Left Hand Cr Nr Niwot	D*										
Boulder Cr at Boulder-Weld County Line	D*										
Clear Cr abv Golden											$D_{Cd\ Cu*}$
Clear Cr at Wheatridge				I						D	$D_{Mg\ Cd}$
Clear Cr at Mouth											D_{Cd}
Sand Cr at Burlington Ditch	D		D*								
Bear Cr abv Morrison											D_{Cd}
Bear Cr abv Morrison											I_{Zn}
Bear Cr at Jefferson-Denver County Line			D*	D			D	D			

Table 4. Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Fecal Coliform			
1. Muster Cr nr Kinsey	1.00	2	13760
2. Yellowstone R at Huntley	0.67	10	1305
3. Custer Cr nr Kinsey	0.40	2	5793
4. Yellowstone R at Billings	0.64	7	390
Nitrogen			
1. West Parrot Cr nr Roundup	1.00	12	2.49
2. Muster Cr nr Kinsey	1.00	4	5.15
3. Big Muddy Cr nr Antelope	0.71	5	2.36
4. Glendive Cr nr Glendive	0.57	4	4.04
5. E Fork Poplar R nr Scobey	0.75	7	1.21
6. Home Cr nr Ashland	0.75	6	1.31
7. E Poplar R at Int'l Bdry	0.57	7	1.19
8. Red water R nr Vida	0.50	6	1.23
Phosphorus			
1. Muster Cr nr Kinsey	1.00	1	3.59
2. Powder R nr Locate	1.00	3	1.10
3. Powder R at Moorhead	1.00	2	0.83
4. Milk R at Nashua	1.00	2	0.42
5. Missouri R nr Culbertson	1.00	2	0.34
6. Yellowstone R nr Sidney	0.83	3	0.24
7. Rosebud Cr at Mouth	1.00	2	0.26
8. Rosebud Cr nr Colstrip	1.00	2	0.24
9. Missouri R nr Landusky	0.67	2	0.36
Dissolved Solids			
1. Otter Cr nr Otter	1.00	9	5085
2. Hanging Woman Cr blw Horse Cr	1.00	9	4061
3. Redwater R at Circle	0.92	10	3123
4. O'Fallon Cr nr Ismay	1.00	10	2501
5. Home Cr nr Ashland	1.00	9	2676

Table 4 (Continued). Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Dissolved Solids			
6. Otter Cr blw Fifteenmile Cr	1.00	9	2526
7. Fattig Cr nr Delpia	1.00	12	1774
8. Redwater R nr Vida	0.92	10	2142
9. Powder R at Moorhead	1.00	11	1637
10. Beaver Cr at Wibaux	1.00	9	1658
Suspended Sediments			
1. Powder R at Moorhead	1.00	8	4057
2. Muster Cr nr Kinsey	1.00	4	6700
3. Powder R nr Locate	1.00	7	2337
4. Custer Cr nr Kinsey	0.75	3	5197
5. Glendive Cr nr Glendive	0.86	6	2080
6. Muddy Cr at Vaughn	1.00	2	2790
7. Muddy Cr nr Vaughn	1.00	1	4130
8. Mizpah Cr nr Mizpah	0.71	5	784
9. Musselshell R nr Roundup	0.71	8	670
10. Yellowstone R nr Sidney	0.86	5	356

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00300 DO														
**********														
POWDER RIVER AT MOORHEAD, MT.	O	X											12	0.17
POWDER RIVER NEAR LOCATE, MT.	X	X											11	0.18
MIZPAH CREEK AT OLIVE, MT.			XX			XX							6	0.50
MIZPAH CREEK NEAR MIZPAH, MT.							O						8	0.13
OTTER CREEK BELOW FIFTEENMILE CREEK NR O							X		O				9	0.22
HOME CREEK NEAR ASHLAND MT			O									O	9	0.22
PRAIRIE DOG CREEK NEAR BIRNEY MT				O		X	X						6	0.67
HANGING WOMAN CREEK NEAR BIRNEY,							O						9	0.11
POPLAR RIVER AT INTERNATIONAL BO									O				11	0.09
POPLAR RIVER NEAR SCOBEY	XX												9	0.11
WEST FORK POPLAR RIVER NEAR BRED	XX												11	0.09
EAST POPLAR RIVER AT INTERNATIO	XX	X											13	0.15
EAST FORK POPLAR RIVER NEAR SCOB							X						11	0.18
ROCK CREEK BELOW HORSE CREEK, NE	XX												11	0.09
31625 FEC COLI														
**********														
MISSOURI RIVER AT VIRGELLE, MT.						XX							12	0.08
MISSOURI RIVER NEAR LANDUSKY, MT								XX					9	0.11
YELLOWSTONE RIVER AT LAUREL MT						XX							16	0.19
YELLOWSTONE RIVER AT BILLINGS MT	XX				O	XX	X			XX	X	O	11	0.64
YELLOWSTONE RIVER AT HUNTLEY, MT	XX	O	X	X	X	X	XX	XX		XX	XX		18	0.67
YELLOWSTONE RIVER NEAR MILES CITY, MT.						O							17	0.06
POWDER RIVER NEAR LOCATE, MT.						XX	XX	XX					11	0.27
TONGUE RIVER AT STATE LINE NR DECKER MON		XX	XX			XX							11	0.27
CUSTER CREEK NEAR KINSEY MT					XX		XX						4	0.50
CUSTER CREEK NEAR KINSEY MT					XX		XX						5	0.40
O'FALLON CREEK NEAR ISHAY, MT.					XX		O						11	0.18
CLEAR CREEK NEAR HOYT MT													5	0.0
UPPER SEVENMILE CREEK NEAR LINDSAY MT						X							4	0.25
DEER CREEK NEAR GLENDIVE MT						X		X					5	0.40
EAST POPLAR RIVER AT INTERNATIO			X			X							10	0.20
ROCK CREEK BELOW HORSE CREEK, NE				XX						O			11	0.18
MILK RIVER AT NASHUA, MT.			XX										12	0.08
CROW ROCK CREEK NEAR COHAGEN MT					XX								4	0.25
BOXELDER CREEK NEAR ROCKY BOY MT							X						4	0.25
MUSSELSHELL RIVER AT MOSBY, MT.						X							13	0.08
31501 TOT COLI														
**********														
YELLOWSTONE RIVER AT HUNTLEY, MT	XX			O		YX				YX	XX	YX	16	0.50
YELLOWSTONE RIVER NEAR MILES CITY, MT.						XX							14	0.07
00600 TOTAL N														
**********														
MISSOURI RIVER AT VIRGELLE, MT.						X							12	0.08
MISSOURI RIVER NEAR LANDUSKY, MT				XX				YX			O	X	9	0.44

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
YX- EXCEEDS CRITERIA BY MORE THAN 85%

Reproduced from best available copy.

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
MISSOURI RIVER BELOW FORT PECK D							0			XX		X	11	0.27
MISSOURI RIVER NEAR CULBERTSON,				XX									12	0.08
YELLOWSTONE RIVER NEAR LIVINGSTO											XX		9	0.11
YELLOWSTONE RIVER AT LAUREL MT			0										16	0.06
YELLOWSTONE RIVER AT BILLINGS MT												X	17	0.08
YELLOWSTONE RIVER AT HUNTLEY, MT													18	0.06
YELLOWSTONE RIVER NEAR MILES CITY, MT.			0										19	0.05
YELLOWSTONE RIVER NEAR TERRY, MT	0		0	X									11	0.27
YELLOWSTONE RIVER NEAR SIDNEY, MT.			X							X			21	0.19
BURNS CREEK NEAR SAVAGE, MT.,				XX									9	0.11
POWDER RIVER AT MOORHEAD, MT,			XX	XX	X	X	X			0	XX	X	17	0.75
POWDER RIVER NEAR LOCATE, MT.			XX	XX		XX		XX				X	11	0.55
MIZPAH CREEK AT OLIVE, MT.			XX	0									6	0.50
MIZPAH CREEK NEAR MIZPAH, MT.			XX				XX	0					8	0.38
TONGUE RIVER AT STATE LINE NR DECKER MON	XX	X	X						X				11	0.36
TONGUE RIVER AT TONGUE R DAM, NE			0										8	0.13
TONGUE RIVER BL HANGING WOMAN C.						XX	0						9	0.22
TONGUE R BL BRANDENBERG BRIDGE,				XX									8	0.13
TONGUE RIVER AT MILES CITY, MT.			XX					X					11	0.18
PUMPKIN CREEK NEAR LOESCH, MT.							XX						6	0.33
PUMPKIN CREEK NEAR MILES CITY MT			X								X	X	8	0.50
OTTER CREEK NEAR OTTER MT												X	9	0.11
OTTER CREEK BELOW FIFTEENMILE CREEK NR O		X	X									0	9	0.33
OTTER CREEK AT ASHLAND, MT.		X	XX										9	0.22
HOME CREEK NEAR ASHLAND MT		X	X	X		X				X		X	8	0.75
COW CREEK NEAR COLSTRIP MT										X	X		2	1.00
MUSTER CREEK NEAR KINSEY MT			XX	XX	XX		XX						4	1.00
CUSTER CREEK NEAR KINSEY MT			XX				XX						4	0.50
O'FALLON CREEK NEAR ISMAY, MT.			X					0				0	12	0.25
UPPER SEVENMILE CREEK NEAR LINDSAY MT			X										4	0.25
GLENDIVE CREEK NEAR GLENDIVE MT			X	XX			XX			0			7	0.57
DEER CREEK NEAR GLENDIVE MT			XX										5	0.20
COTTONWOOD CREEK NEAR INTAKE MT			X	0									6	0.33
BEAVER CREEK AT HIRAUX MT			XX	XX						XX	X		12	0.33
HANGING WOMAN CREEK BL HORSE CREEK NR BI			X	0	0								9	0.33
ROSEBUD CREEK AT KIRBY MT				XX									7	0.14
ROSEBUD CREEK NEAR COLSTRIP, MT.		0		X	0	X							9	0.44
ROSEBUD CREEK AT MOUTH, NEAR ROS			XX	X		X							9	0.33
EAST FORK ARMELLS CREEK NEAR COL			X									XX	6	0.33
ARMELLS CREEK NEAR FORSYTH, MT.			0										9	0.11
SAPPY CREEK NEAR HYSHAM, MT.,			X										9	0.11
BIGHORN RIVER AT BIGHORN, MT.										X			11	0.09
BIG SAND CL AT WY-MONT STATE LINE			XX	XX									2	1.00
BIG MUDDY CREEK NEAR ANTELOPE MT			XX	XX				X			XX	XX	7	0.71
POPLAR RIVER AT INTERNATIONAL BO			XX	X			X						11	0.36
POPLAR RIVER NEAR SCOBEY	X		XX	X					X				9	0.56
POPLAR RIVER ABOVE WEST FORK NEA			XX	X									11	0.27
POPLAR RIVER NEAR POPLAR, MT.			XX	XX									12	0.17
WEST FORK POPLAR RIVER NEAR BRED			XX	X									12	0.17
EAST POPLAR RIVER AT INTERNATIO		X	X	X	X					0	X	X	14	0.57

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
EAST FORK POPLAR RIVER NEAR SCOB			X	X	O		X	X	X	X			12	0.75
BEAVER CREEK AT INTERNATIONAL BOUNDARY			XX										4	0.25
BEDWATER RIVER AT CIRCLE, MT,			X	X			X						12	0.25
BEDWATER RIVER NEAR VIDA, MT.		X	X	XX	XX	X						O	12	0.50
PRAIRIE ELK CREEK NEAR OSWEGO MT				XX									8	0.13
MILK RIVER AT NASHUA, MT.	X	X	X	XX	O							X	12	0.50
CROW ROCK CREEK NEAR COHAGEN MT			X		X	X							4	0.75
NELSON CREEK NEAR VAN NORMAN, MT.				XX		X	X						5	0.60
TIMBER CREEK NEAR VAN NORMAN, MT			O		X								6	0.33
HALF BREED CREEK NEAR KLEIN MT	X	X	XX								XX	XX	12	0.42
EAST PARROT CREEK NEAR ROUNDUP MT					X	O					X	X	8	0.50
WEST PARROT CREEK NEAR ROUNDUP M	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
FATTIG CREEK NEAR DELPIA MT	O										X	X	12	0.25
MUSSELSHELL RIVER NEAR ROUNDUP,		O			O	X							14	0.36
MUSSELSHELL RIVER AT MOSBY, MT.			X	O		X					XX		13	0.31
MARIAS RIVER NEAR CHESTER, MT.				O									12	0.08
CLARK FORK BELOW MISSOULA, MT.								X					12	0.08
FLATHEAD RIVER AT COLUMBIA FALLS									O				11	0.09
00630 NO2&NO3														
**********														
YELLOWSTONE RIVER NEAR LIVINGSTO											X		8	0.11
MIZPAH CREEK NEAR MIZPAH, MT.							X						8	0.13
TONGUE RIVER AT STATE LINE NR DECKER MON	X												11	0.09
TONGUE RIVER BL HANGING WOMAN C.						XX							9	0.11
HOME CREEK NEAR ASHLAND MT												.	8	0.0
MUSTER CREEK NEAR KINSEY MT					XX		XX					.	4	0.50
CUSTER CREEK NEAR KINSEY MT							X						4	0.25
GLENDIVE CREEK NEAR GLENDIVE MT													9	0.0
BEAVER CREEK AT WIBAUX MT			X										12	0.08
BIG SAND CR AT WY-MONT STATE LINE			XX	XX									3	0.67
BEDWATER RIVER NEAR VIDA, MT.					X								12	0.08
NELSON CREEK NEAR VAN NORMAN, MT.													5	0.0
HALF BREED CREEK NEAR KLEIN MT			O								X	X	12	0.25
EAST PARROT CREEK NEAR ROUNDUP MT											O		8	0.13
WEST PARROT CREEK NEAR ROUNDUP M	X	X	X	XX	XX	XX	XX	X	XX	XX	XX	XX	12	1.00
MUSSELSHELL RIVER AT MOSBY, MT.											X		13	0.08
00665 PHOS-TOT														
**********														
MISSOURI RIVER AT VIRGELLE, MT.						XX		XX				XX	12	0.25
MISSOURI RIVER NEAR LANDUSKY, MT				XX				XX					9	0.33
MISSOURI RIVER NEAR CULBERTSON,				XX	XX								12	0.17
YELLOWSTONE RIVER AT LAUREL MT						X							16	0.06
YELLOWSTONE RIVER AT BILLINGS MT						XX							12	0.08
YELLOWSTONE RIVER AT HUNTLEY, MT						O				XX			18	0.17
YELLOWSTONE RIVER AT FORSYTH, MT													11	0.0
YELLOWSTONE RIVER NEAR MILES CITY, MT.			X			X		X					19	0.26
YELLOWSTONE RIVER NEAR SIDNEY, MT.				X	XX	XX							21	0.33
BURNS CREEK NEAR SAVAGE, MT.				XX									9	0.11

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
POWDER RIVER AT MOORHEAD, MT.			XX	XX	XX	XX	XX		XX	XX	XX	X	12	0.83
POWDER RIVER NEAR LOCATE, MT.			XX	XX	0	XX	XX	XX					11	0.55
MIZPAH CREEK AT OLIVE, MT.			XX				X						6	0.50
MIZPAH CREEK NEAR MIZPAH, MT.			XX				XX						8	0.25
TONGUE RIVER AT STATE LINE NR DECKER MON		0	X									XX	10	0.30
TONGUE RIVER BL HANGING WOMAN C.							XX						9	0.11
TONGUE RIVER AT MILES CITY, MT.			XX					X					11	0.18
PUMPKIN CREEK NEAR MILES CITY MT			XX										8	0.25
OTTER CREEK AT ASHLAND, MT.			XX			0							9	0.22
CUSTER CREEK NEAR KINSEY MT			X	XX	XX		XX						4	1.00
CUSTER CREEK NEAR KINSEY MT							XX						3	0.33
PIEALLON CREEK NEAR ISMAY, MT.			XX										12	0.08
GLENDIVE CREEK NEAR GLENDIVE MT			XX	XX			XX						7	0.43
DEER CREEK NEAR GLENDIVE MT			X										5	0.20
COTTONWOOD CREEK NEAR INTAKE MT			X										6	0.17
BEAVER CREEK AT WIBAUX MT			X	XX									12	0.17
SQUIRREL CREEK NR DECKER, MT.						XX							9	0.11
ROSEBUD CREEK AT KIRBY MT				XX									7	0.14
ROSEBUD CREEK NEAR COLSTRIP, MT.				XX	XX	XX	X						9	0.44
ROSEBUD CREEK AT MOUTH, NEAR ROS			XX		XX	XX	X						9	0.44
EAST FORK ARMELLS CREEK NEAR COL			X										6	0.17
ARMELLS CREEK NEAR FORSYTH, MT.			XX										9	0.11
BIG SAND CL AT WY-MONT STATE LINE							0						5	0.20
CLARKS FORK YELLOWSTONE RIVER NEAR BELFR		0			XX	X							13	0.23
BIG MUDDY CREEK NEAR ANTELOPE MT			XX	XX							XX		7	0.43
POPLAR RIVER AT INTERNATIONAL BO			XX	XX			0						11	0.36
POPLAR RIVER NEAR SCOBEY			XX	X									9	0.33
POPLAR RIVER ABOVE WEST FORK NEA			XX	XX									11	0.18
POPLAR RIVER NEAR POPLAR, MT.			XX	XX									12	0.17
WEST FORK POPLAR RIVER NEAR BRED			XX	XX									12	0.17
EAST POPLAR RIVER AT INTERNATIO				X									14	0.07
EAST FORK POPLAR RIVER NEAR SCOB			X	X									12	0.17
ROCK CREEK BELOW HORSE CREEK, NE			XX	XX									11	0.18
BEAVER CREEK AT INTERNATIONAL BOUNDARY			XX										4	0.25
REDWATER RIVER AT CIRCLE, MT.				XX				X					12	0.17
REDWATER RIVER NEAR VIDA, MT.				XX				X					12	0.17
PRAIRIE ELK CREEK NEAR OSWEGO MT			X	XX									8	0.25
MILK RIVER AT NASHUA, MT.			X	XX	X	0							12	0.33
CROW ROCK CREEK NEAR COHAGEN MT			XX										4	0.25
BOXELDER CREEK NEAR ROCKY BOY MT			X				X						4	0.50
NELSON CREEK NEAR VAN NORMAN, MT.				XX									5	0.20
MUSSELSHELL RIVER NEAR ROUNDUP,					XX	XX							14	0.21
MUSSELSHELL RIVER AT MOSBY, MT.			XX		XX	XX							13	0.23
CLARK FORK BELOW MISSOULA, MT.												X	12	0.08

00650 T P04

****

MISSOURI RIVER AT VIRGELLE, MT.						XX							3	0.33
MISSOURI RIVER NEAR LANDUSKY, MT				XX			X						3	0.67
MISSOURI RIVER NEAR CULBERTSON,				XX	XX								2	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
YELLOWSTONE RIVER AT LAUREL MT						X							5	0.40
YELLOWSTONE RIVER AT BILLINGS MT						XX							3	0.33
YELLOWSTONE RIVER AT HUNTLEY, MT						0							5	0.20
YELLOWSTONE RIVER AT FORSYTH, MT						0							3	0.33
YELLOWSTONE RIVER NEAR MILES CITY, MT.						X							6	0.33
YELLOWSTONE RIVER NEAR SIDNEY, MT.				X	XX	XX							6	0.83
POWDER RIVER AT MOORHEAD, MT,					XX	XX							2	1.00
POWDER RIVER NEAR LOCATE, MT.				XX	0	XX							3	1.00
MIZPAH CREEK AT OLIVE, MT.							X						3	0.33
OTTER CREEK AT ASHLAND, MT.						0							2	0.50
MUSTER CREEK NEAR KINSEY MT					XX								1	1.00
GLENDIVE CREEK NEAR GLENDIVE MT							XX						2	0.50
SQUIRREL CREEK NR DECKER, MT.				0		XX							3	0.67
ROSEBUD CREEK NEAR COLSTRIP, MT.					XX	XX							2	1.00
ROSEBUD CREEK AT MOUTH, NEAR ROS					XX	XX							2	1.00
BIG SAND CL AT WY-MONT STATE LINE						0	0						3	0.67
POPLAR RIVER NEAR SCOBEY				X									2	0.50
POPLAR RIVER NEAR POPLAR, MT.				XX									3	0.33
EAST POPLAR RIVER AT INTERNATIO				X									7	0.14
EAST FORK POPLAR RIVER NEAR SCOB				X									2	0.50
MILK RIVER AT NASHUA, MT.				XX	X								2	1.00
NELSON CREEK NEAR VAN NORMAN, MT.				XX									4	0.25
MUSSELSHELL RIVER NEAR ROUNDUP,						XX							2	0.50
MUSSELSHELL RIVER AT MOSBY, MT.						XX							2	0.50
70300 RESIDUE														
**********														
MISSOURI RIVER NEAR LANDUSKY, MT				X									10	0.20
MISSOURI RIVER BELOW FORT PECK D				0	0	X	0	0	0		0	0	12	0.67
MISSOURI RIVER NEAR CULBERTSON,	0	0			X	X	0	0	0	0	0	0	12	0.83
YELLOWSTONE RIVER AT HUNTLEY, MT	XX		0										15	0.20
YELLOWSTONE RIVER NEAR MILES CITY, MT.	X	X	X	X									17	0.47
YELLOWSTONE RIVER NEAR SIDNEY, MT.	X	X	0	X					0	X	X	X	21	0.62
POWDER RIVER NEAR LOCATE, MT.	XX	XX	XX	XX	XX	XX	XX	XX		XX		XX	11	1.00
TONGUE RIVER AT MILES CITY, MT.	X	X		XX	X		X	0		X	X	X	11	0.73
MUSTER CREEK NEAR KINSEY MT				X	XX		X						4	0.75
CUSTER CREEK NEAR KINSEY MT				XX	XX		X						4	0.75
O'FALLON CREEK NEAR ISMAY, MT.	XX	XX	0	X	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
CLEAR CREEK NEAR HOYT MT		XX	0	XX	XX	XX							5	1.00
UPPER SEVENMILE CREEK NEAR LINDSAY MT			XX	XX	XX	XX							4	1.00
DEER CREEK NEAR GLENDIVE MT			0	XX	XX	XX		XX					5	1.00
BIGHORN RIVER AT BIGHORN, MT.	0	X	X	X	X	X	X	X	X	X	X		11	1.00
POPLAR RIVER NEAR SCOBEY										XX			1	1.00
POPLAR RIVER ABOVE WEST FORK NEA										XX			1	1.00
POPLAR RIVER NEAR POPLAR, MT.	X												1	1.00
WEST FORK POPLAR RIVER NEAR BRED										X			1	1.00
EAST POPLAR RIVER AT INTERNATIO										X			1	1.00
EAST FORK POPLAR RIVER NEAR SCOB										X			1	1.00
ROCK CREEK BELOW HORSE CREEK, NE	XX				X	X	X	XX	XX	XX	XX	XX	11	0.82
MILK RIVER AT NASHUA, MT.	XX	XX			X	XX	X	X	X	XX		XX	12	0.83

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
CROW ROCK CREEK NEAR CORAGEN MT				X	XX	YX							4	0.75
MUSSELSHELL RIVER AT MOSBY, MT.	XY	YX	XY	XX	XX	X		YX	XY	YX	XY	YX	13	1.00
70301 DISS SOL														
**********														
MISSOURI RIVER NEAR LANDUSKY, MT				X									10	0.20
MISSOURI RIVER BELOW FORT PECK D		0	0	0	0	0	0	0	0	0	0		12	0.83
MISSOURI RIVER NEAR CULBERTSON,	0		0		X	X	0	0	0	0	X	0	12	0.83
YELLOWSTONE RIVER AT HUNTLEY, MT	XY		0										10	0.20
YELLOWSTONE RIVER AT FORSYTH, MT	X	0	0	X							0		11	0.45
YELLOWSTONE RIVER NEAR MILES CITY, MT.	Y	0	X	X	0			0			0		11	0.64
YELLOWSTONE RIVER NEAR TERRY, MT	X	X	X	X	X			0		0	X		11	0.73
YELLOWSTONE RIVER NEAR SIDNEY, MT.	X	X		X	X				0	0	X	X	12	0.67
BURNS CREEK NEAR SAVAGE, MT.,	XY	YX			XX	XX	XY	XX	XY				9	0.78
POWDER RIVER AT MOORHEAD, MT,	XY	YX	XY	XX	XX	YX	XY		XY	YX	XY	YX	11	1.00
POWDER RIVER NEAR LOCATE, MT.	XY	YX	XY	XX	XX	YX	XX	XX		YX		YX	11	1.00
MIZPAH CREEK AT OLIVE, MT.			XY	XX	XX	YX	XY						6	1.00
MIZPAH CREEK NEAR MIZPAH, MT.				XX	XY	YX	XY	XX		YX		YX	8	0.98
TONGUE RIVER AT STATE LINE NR DECKER MON	XY	X	0	X				0	0	0			10	0.70
TONGUE RIVER AT TONGUE R DAM, NE		X	X	X	X					0		X	9	0.67
TONGUE RIVER BL HANGING WOMAN C.	Y		X	X	Y								9	0.56
TONGUE R AT BIRNEY DAY SCHOOL, BR NR BIRN											X	X	3	0.67
TONGUE R BL BRANDENBERG BRIDGE,		X	X	X	X							X	8	0.75
TONGUE RIVER AT MILES CITY, MT.	Y	X		XX	X					X	Y	X	11	0.64
PUMPKIN CREEK NEAR LOESCH, MT.			XY	XX	XX	YX	XY						6	1.00
PUMPKIN CREEK NEAR MILES CITY MT				XX	XX	YX	XY				XY	YX	8	0.75
OTTER CREEK NEAR OTTER MT		YX	XY	XX	XX	YX	XY		XY	YX		YX	9	1.00
OTTER CREEK BELOW FIFTEENMILE CREEK NR O		YX	XY	XX	XX	YX	XY		XY	YX		YX	8	1.00
OTTER CREEK AT ASHLAND, MT.		YX	X	XX	XX	YX	XY		XY	YX		YX	9	1.00
HOME CREEK NEAR ASHLAND MT		XX		XX	XX	XX	XY		XY	YX		YX	8	1.00
COW CREEK NEAR COLSTRIP MT										YX	XY		2	1.00
PRAIRIE DOG CREEK NEAR BIRNEY MT				X		YX	XY	XX					5	1.00
EAST TRAIL CREEK NEAR OTTER MT			XY										1	1.00
MUSTER CREEK NEAR KINSEY MT				0	XX		X						4	0.75
CUSTER CREEK NEAR KINSEY MT				XX	XX		X						4	0.75
CHERRY CREEK NEAR TERRY MT				XX	XX	YX							3	1.00
OTTALLON CREEK NEAR ISHAY, MT.	XY	YX	0	X	XX	YX	XY	XX	XY	YX	XY	XX	12	1.00
CLEAR CREEK NEAR HOYT MT		XX	0	YX	XX	YX							5	1.00
UPPER SEVENMILE CREEK NEAR LINDSAY MT			XY	YX	XY	YX							4	1.00
GLENDIVE CREEK NEAR GLENDIVE MT			X	0	XX			XX	XY	YX			6	1.00
DEER CREEK NEAR GLENDIVE MT				XX	XX	YX		YX					5	0.80
COTTONWOOD CREEK NEAR INTAKE MT			X	YX	XY	YX	XY	YX					6	1.00
BEAVER CREEK AT WIBAUX MT	XY	XX	X	0	XX	YX	XY	XX	XY	YX	XY	YX	12	1.00
HANGING WOMAN CREEK BL HORSE CREEK NR BI		YX	XY	XX	XY	YX	XY		XY	YX		YX	8	1.00
HANGING WOMAN CREEK NEAR BIRNEY,			XY	XX	XX	YX	XY		XY	YX		YX	9	1.00
SQUIRREL CREEK NR DECKER, MT.		X	X	0	X	X	Y		XY	YX		YX	9	1.00
ROSEBUD CREEK AT KIRBY MT		X	0			0	0		Y				7	0.71
ROSEBUD C AT RESERVATION BOUNDARY NEAR K										0		0	2	1.00
ROSEBUD CREEK NEAR COLSTRIP, MT.		YX		X	Y	X	Y	X	Y	Y		YX	8	1.00
ROSEBUD CREEK AT MOUTH, NEAR ROS		YX		YX	Y	X	XY		XY	YX		YX	9	0.89

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
EAST FORK ARMELLS CREEK NEAR COL			XX	XX	XX					XX		XX	5	1.00
ARMELLS CREEK NEAR FORSYTH, MT.			X	XX	XX	XX	XX	XX	XX	XX		XX	9	1.00
SARPY CREEK NEAR HYSHAM, MT.		XX	X	XX			XX		XX	XX		XX	7	1.00
BIGHORN RIVER NEAR ST. XAVIER, M	O	X	X	X	X	X	O	X	X	O		X	11	1.00
BIGHORN RIVER AT BIGHORN, MT.	O	X	X	X	X	X	X	X	X	X	X		11	1.00
LITTLE BIGHORN RIVER NEAR HARDIN	X	X	X	XX	X		O	O	X	O	O		11	0.91
FLY CREEK AT POMPEYS PILLAR, MT.	XX	XX	XX	XX	XX	X	X	X	X	X	XX		11	1.00
BIG SAND CL AT WY-MONT STATE LINE				O									5	0.20
BIG MUDDY CREEK NEAR ANTELOPE MT						XX		XX		XX	XX	XX	7	0.71
POPLAR RIVER AT INTERNATIONAL BO					X	X	XX	XX	XX	XX	XX	XX	11	0.73
POPLAR RIVER NEAR SCOBEY	XX				X	X		XX	XX	XX			9	0.67
POPLAR RIVER ABOVE WEST FORK NEA					X	X	X	XX	XX	XX	XX	XX	11	0.82
POPLAR RIVER NEAR POPLAR, MT.	XX	XX			X	X	X	XX	XX	XX	XX	XX	12	0.83
WEST FORK POPLAR RIVER NEAR BRED	X				X	X	O	X	X	X	X	X	12	0.83
EAST POPLAR RIVER AT INTERNATIO	XX	XX	X	X		O	X	XX	X	X	X	XX	14	0.93
EAST FORK POPLAR RIVER NEAR SCOB			X		X	X	X	X	XX	X	XX	XX	12	0.92
ROCK CREEK BELOW HORSE CREEK, NE	XX				X	X	X	XX	XX	XX	XX	XX	11	0.82
MCEACHERN CREEK AT INTERNATIONAL					O								3	0.33
BEAVER CREEK AT INTERNATIONAL BOUNDARY						XX			XX			XX	4	0.75
REDWATER RIVER AT CIRCLE, MT.	XX	XX		X	XX	XX	XX	XX	XX	XX	XX	XX	12	0.92
REDWATER RIVER NEAR VIDA, MT.	XX	XX	X		XX		XX	XX	XX	XX	XX	XX	11	0.91
PRAIRIE ELK CREEK NEAR OSWEGO MT	XX				XX	XX	XX	XX	XX				8	0.75
MILK RIVER AT JUNEBERG BRIDGE NEAR SACO	XX	XX	XX		O	O	X		X	X	XX	XX	11	0.91
MILK RIVER AT NASHUA, MT.	XX	XX			O	XX	X	X	X	XX		XX	12	0.83
CROW ROCK CREEK NEAR COHAGEN MT				X	XX	XX							4	0.75
NELSON CREEK NEAR VAN NORMAN, MT.				X	XX	XX	XX						5	0.80
TIMBER CREEK NEAR VAN NORMAN, MT			XX		XX	XX	XX	XX	XX				6	1.00
HALF BREED CREEK NEAR KLEIN MT	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
EAST PARROT CREEK NEAR ROUNDUP MT					XX	XX	XX	XX	XX	XX	XX	XX	8	1.00
WEST PARROT CREEK NEAR ROUNDUP M	X	X	X	X	X	XX	X	XX	XX	XX	XX	XX	12	1.00
PATTIG CREEK NEAR DELPIA MT	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
MUSSELSHELL RIVER NEAR ROUNDUP,	XX	XX	X	XX	X	X		X	XX	XX	XX	XX	14	0.93
MUSSELSHELL RIVER AT MOSBY, MT.	XX	XX	XX	XX	XX	X		XX	XX	XX	XX	XX	13	0.92
SUN RIVER NEAR VAUGHN, MT.			X							X	O	X	11	0.45
MUDDY CREEK NEAR VAUGHN, MT.	X	X	X	XX					X	X		X	10	0.70
MUDDY CREEK AT VAUGHN, MT.	X	X	X	XX						X			9	0.56

00095 CNDUCTVY
****

MISSOURI RIVER NEAR LANDUSKY, MT				O									10	0.10
MISSOURI RIVER BELOW FORT PECK D		O				O	O						12	0.25
MISSOURI RIVER NEAR CULBERTSON,					O	O			O		O		26	0.15
YELLOWSTONE RIVER AT FORSYTH, MT	O	O	O	X									11	0.36
YELLOWSTONE RIVER NEAR MILES CITY, MT.	O	O	O	X									10	0.37
YELLOWSTONE RIVER NEAR TERRY, MT	X	X	O	X	O								11	0.45
YELLOWSTONE RIVER NEAR SIDNEY, MT.	O	O		X						O	O	X	29	0.38
BURNS CREEK NEAR SAVAGE, MT.	XX	XX			XX	XX	XX	XX	XX				9	0.78
POWDER RIVER AT MOORHEAD, MT.	XX	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	12	1.00
POWDER RIVER NEAR LOCATE, MT.	XX	XX	XX	XX	XX	XX	XX	XX		XX		XX	11	1.00
MIZPAH CREEK AT OLIVE, MT.			XX	XX	XX	XX	XX						6	1.00

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
WIZPAW CREEK NEAR WIZPAW, MT.				XX	XX	XX	X	XX		XX		XX	8	0.88
TONGUE RIVER AT STATE LINE NR DECKER MON	XX	0	0	X								X	11	0.45
TONGUE RIVER AT TONGUE R DAM, NE		X	X	X	0							0	9	0.56
TONGUE RIVER BL HANGING WOMAN C.	0		X	X	X								9	0.56
TONGUE R AT BIRNEY DAY SCHOOL BR NR BIRN											0	X	3	0.67
TONGUE R BL BRANDENBERG BRIDGE,		X	X	X	X					X		X	8	0.75
TONGUE RIVER AT MILES CITY, MT.	X	X		X	X					0	X	X	11	0.64
PUMPKIN CREEK NEAR LOESCH, MT.			XX	XX	XX	XX	XX						6	1.00
PUMPKIN CREEK NEAR MILES CITY MT				XX	XX	XX	XX				XX	XX	8	0.75
OTTER CREEK NEAR OTTER MT		XX	XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
OTTER CREEK BELOW FIFTEENMILE CREEK NR O		XX	XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
OTTER CREEK AT ASHLAND, MT.		XX	X	XX	XX	XX	XX		XX	XX		XX	9	1.00
HOME CREEK NEAR ASHLAND MT		XX	XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
COW CREEK NEAR COLSTRIP MT										XX	XX		2	1.00
PRAIRIE DOG CREEK NEAR BIRNEY MT				X	X	X	XX	XX					6	1.00
MUSTER CREEK NEAR KINSEY MT				0	XX		X						4	0.75
CUSTER CREEK NEAR KINSEY MT				XX	XX		X						4	0.75
CHERRY CREEK NEAR TERRY MT				XX	XX	XX							3	1.00
O'FALLON CREEK NEAR ISHAY, MT.	XX	XX		X	XX	XX	XX	XX	XX	XX	XX	XX	12	0.92
CLEAR CREEK NEAR HOYT MT		XX		XX	XX	XX							5	0.80
UPPER SEVENMILE CREEK NEAR LINDSAY MT			X	XX	XX	XX							4	1.00
GLENDIVE CREEK NEAR GLENDIVE MT			X		XX		X	XX	XX	XX			7	0.86
DEER CREEK NEAR GLENDIVE MT				XX	XX	XX		XX					5	0.80
COTTONWOOD CREEK NEAR INTAKE MT			X	X	XX	XX	XX	XX					6	1.00
BEAVER CREEK AT WIBAUX MT	XX	XX	X	0	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
HANGING WOMAN CREEK BL HORSE CREEK NR BI		XX	XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
HANGING WOMAN CREEK NEAR BIRNEY,			XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
SQUIRREL CREEK NR DECKER, MT.		X	X	0	X	X	X		X	XX		XX	9	1.00
ROSEBUD CREEK AT KIRBY MT		X	0		0	0	0		0				7	0.86
ROSEBUD C AT RESERVATION BOUNDARY NEAR K										0		X	2	1.00
ROSEBUD CREEK NEAR COLSTRIP, MT.		X		X	X	X	X	X	X	X		X	9	1.00
ROSEBUD CREEK AT MOUTH, NEAR ROS		XX		XX	X	X	X		XX	XX		X	9	0.89
EAST FORK ARMELLS CREEK NEAR COL			X	XX	XX	XX				XX		XX	6	1.00
ARMELLS CREEK NEAR FORSYTH, MT.			X	XX	XX	XX	XX	XX	XX	XX		XX	9	1.00
SARPY CREEK NEAR HYSHAM, MT.		XX	0	XX	XX	XX	XX		XX	XX		XX	9	1.00
BIGHORN RIVER NEAR ST. XAVIER, M	0	0	0	X		0	0	0	0	0		0	10	1.00
BIGHORN RIVER AT BIGHORN, MT.	0	X	X	X	X	X	0	X	0	0	X		11	1.00
LITTLE BIGHORN RIVER NEAR HARDIN	X	X	X	XX	X				0		0		11	0.64
FLY CREEK AT POMPEYS PILLAR, MT.	XX	XX	X	XX	XX	X	X	X	0	0	XX		11	1.00
BIG SAND CL AT WY-MONT STATE LINE				0									5	0.20
BIG MUDDY CREEK NEAR ANTELOPE MT						XX		XX		XX	XX	XX	7	0.71
POPLAR RIVER AT INTERNATIONAL BO					X	X	XX	XX	XX	XX	X	X	11	0.73
POPLAR RIVER NEAR SCOBEY	XX				X	X	XX	XX	XX	XX			10	0.70
POPLAR RIVER ABOVE WEST FORK NEA					X	X	X	X	XX	XX	XX	XX	11	0.82
POPLAR RIVER NEAR POPLAR, MT.	XX	XX			X	X	X	XX	XX	XX	XX	XX	12	0.83
WEST FORK POPLAR RIVER NEAR BRED	X				X	X	0	X	X	X	X	X	12	0.83
EAST POPLAR RIVER AT INTERNATIO	X	X	X	X			X	X	X	X	X	X	14	0.86
EAST FORK POPLAR RIVER NEAR SCOB			X		X	X	X	X	XX	X	XX	XX	12	0.92
ROCK CREEK BELOW HORSE CREEK, NE	X				X	X	X	XX	XX	XX	XX	XX	11	0.82
BEAVER CREEK AT INTERNATIONAL BOUNDARY						XX			XX			XX	4	0.75

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
REDWATER RIVER AT CIRCLE, MT.	XX	XX		X	XX	XX	XX	XX	XX	XX	XX	XX	12	0.92
REDWATER RIVER NEAR VIDA, MT.	XX	XX	X		XX	XX	XX	XX	XX	XX	XX	XX	12	0.92
PRAIRIE ELK CREEK NEAR OSWEGO MT	XX				XX	XX	XX	XX	XX				8	0.75
MILK RIVER AT JUNEBERG BRIDGE NEAR SACO	XX	XX	XX			O	X	X	X	X	XX	XX	12	0.83
MILK RIVER AT HASHUA, MT.	XX	XX			O	X	X	X	X	X		XX	10	0.89
CROW ROCK CREEK NEAR COHAGEN MT				X	XX	XX							4	0.75
NELSON CREEK NEAR VAN NORMAN, MT.				X	XX	XX	XX						5	0.80
TIMBER CREEK NEAR VAN NORMAN, MT			XX	XX	XX	XX	XX	XX	XX				7	1.00
HALF BREED CREEK NEAR KLEIN MT	XX	XX	X	XX	XX	XX	XX	XX	X	XX	XX	X	12	1.00
EAST PARROT CREEK NEAR ROUNDUP MT					XX	XX	XX	XX	XX	XX	XX	XX	8	1.00
WEST PARROT CREEK NEAR ROUNDUP M	X	X	X	X	X	X	X	X	X	X	X	X	12	1.00
FATTIG CREEK NEAR DELPIA MT	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
MUSSELSHELL RIVER NEAR ROUNDUP,	XX	X	X	XX	X	O		X	X	XX	XX	XX	14	0.86
MUSSELSHELL RIVER AT MOSBY, MT.	XX	XX	X	XX	XX	X		X	XX	XX	XX	XX	22	0.91
SUN RIVER NEAR VAUGHN, MT.			X							O	O	O	11	0.45
MUDDY CREEK NEAR VAUGHN, MT.	X	X	X	XX					O	X		X	10	0.70
MUDDY CREEK AT VAUGHN, MT.	X	X	X	XX					O	X		X	10	0.70
00070 TURB														
**********														
YELLOWSTONE RIVER AT LAUREL MT			XX										7	0.14
YELLOWSTONE RIVER AT HUNTLEY, MT			X										7	0.14
YELLOWSTONE RIVER NEAR MILES CITY, MT.			XX	XX									8	0.38
YELLOWSTONE RIVER NEAR SIDNEY, MT.			XX	XX									8	0.38
TONGUE RIVER AT STATE LINE NR DECKER MON			X										8	0.13
70299 RES-SUSP														
**********														
YELLOWSTONE RIVER AT LAUREL MT			XX		X	XX							16	0.25
YELLOWSTONE RIVER AT HUNTLEY, MT			O			O	X						15	0.20
YELLOWSTONE RIVER NEAR MILES CITY, MT.			XX	X	O	XX							16	0.31
YELLOWSTONE RIVER NEAR SIDNEY, MT.			XX	XX	XX	XX	X		XX				17	0.59
80154 SUSP SED														
**********														
MISSOURI RIVER AT TOSTON, MT.		X	XX		XX	XX						XX	12	0.42
MISSOURI RIVER AT VIRGELLE, MT.			X	XX	X	XX							12	0.33
MISSOURI RIVER NEAR CULBERTSON,	X		X	XX	XX	XX	XX	X	X	X	X		12	0.83
ST MARY RIVER AT INTERNATIONAL BOUNDARY				O	X			O					11	0.27
YELLOWSTONE RIVER NEAR LIVINGSTO					XX	XX							9	0.22
YELLOWSTONE RIVER AT HUNTLEY, MT					X	XX	X						10	0.30
YELLOWSTONE RIVER NEAR MILES CITY, MT.						XX	X						6	0.33
YELLOWSTONE RIVER NEAR TERRY, MT				XX	XX	XX							9	0.33
YELLOWSTONE RIVER NEAR SIDNEY, MT.			XX	XX	XX	XX	XX						7	0.86
BURNS CREEK NEAR SAVAGE, MT.			X	XX				X					9	0.33
POWDER RIVER AT MOORHEAD, MT.	XX	X	XX	XX	XX	XX	XX		XX				9	1.00
POWDER RIVER NEAR LOCATE, MT.	X	X		XX	XX	XX	XX	XX					7	1.00
MIZPAH CREEK NEAR MIZPAH, MT.			XX	XX	XX	X	XX						7	0.71
TONGUE RIVER BL HANGING WOMAN C.							XX						9	0.11
TONGUE R BL BRANDENBERG BRIDGE.			XX		XX								7	0.43

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
PUMPKIN CREEK NEAR MILES CITY MT			XX	X		XX	XX						8	0.63
OTTER CREEK NEAR OTTER MT									X				9	0.11
OTTER CREEK BELOW FIFTEENMILE CREEK NR O			X			X						O	9	0.33
OTTER CREEK AT ASHLAND, MT.			X			XX							9	0.22
HOME CREEK NEAR ASHLAND MT		O				X							9	0.22
COW CREEK NEAR COLSTRIP MT											XX		1	1.00
PRAIRIE DOG CREEK NEAR BIRNEY MT				XX									14	0.14
MUSTER CREEK NEAR KINSEY MT			XX	XX	XX		XX						4	1.00
CUSTER CREEK NEAR KINSEY MT			XX	X			XX						4	0.75
O'FALLON CREEK NEAR ISHAY, MT.	O		XX	O	X	X	O	X	X		X		14	0.71
GLENDIVE CREEK NEAR GLENDIVE MT			XX	XX	X		XX	XX	X				7	0.86
DEER CREEK NEAR GLENDIVE MT			XX					X					5	0.40
BEAVER CREEK AT WIBAUX MT				XX				X					12	0.17
HANGING WOMAN CREEK BL HORSE CREEK NR BI					XX							X	9	0.22
HANGING WOMAN CREEK NEAR BIRNEY,							XX		X				9	0.22
SQUIRREL CREEK NR DECKER, MT.			X	XX		X	X						9	0.44
ROSEBUD CREEK AT KIRBY MT			XX	XX	XX	O	O		X				7	0.86
ROSEBUD CREEK NEAR COLSTRIP, MT.				XX	XX	XX	XX	XX					9	0.56
ROSEBUD CREEK AT MOUTH, NEAR ROS			XX	XX	XX	XX	X		X	X		X	9	0.89
ARMELLS CREEK NEAR FORSYTH, MT.			XX	X		O							9	0.33
SARPY CREEK NEAR HYSHAM, MT.			XX	X		X	X						9	0.44
BIGHORN RIVER AT BIGHORN, MT.				X	O	O							9	0.33
BIG SAND CL AT WY-MONT STATE LINE						X	XX	X					6	0.50
BIG MUDDY CREEK NEAR ANTELOPE MT				XX								O	8	0.25
POPLAR RIVER ABOVE WEST FORK NEA				XX									8	0.13
POPLAR RIVER NEAR POPLAR, MT.				XX									11	0.09
WEST FORK POPLAR RIVER NEAR BRED				O									9	0.11
EAST FORK POPLAR RIVER NEAR SCOB											X		11	0.09
ROCK CREEK BELOW HORSE CREEK, NE			X	X			O	X					9	0.44
REDWATER RIVER AT CIRCLE, MT,							XX	X	O				10	0.30
REDWATER RIVER NEAR VIDA, MT.			XX	XX	X		X	O					12	0.42
PRAIRIE ELK CREEK NEAR OSWEGO MT	X		XX	XX				O	X				8	0.63
MILK RIVER AT NASHUA, MT.			XX	XX	XX	X	X	X				X	12	0.67
LITTLE PEOPLES CREEK NEAR HAYS,			XX		X								4	0.50
CROW ROCK CREEK NEAR CONAGEN MT			X		X	O							4	0.75
NELSON CREEK NEAR VAN NORMAN, MT.			XX	XX	O		X						5	0.80
TIMBER CREEK NEAR VAN NORMAN, MT			XX	XX	X	XX	O				X		8	0.75
MUSSELSHELL RIVER NEAR ROUNDUP,	X		XX	XX	XX	XX		O	O			X	14	0.71
MUSSELSHELL RIVER AT MOSBY, MT.	O		XX	XX	XX	XX						X	13	0.54
MUDDY CREEK NEAR VAUGHN, MT.			XX										1	1.00
MUDDY CREEK AT VAUGHN, MT.				XX		XX							2	1.00
CLARK FORK BELOW MISSOULA, MT.					XX	X							12	0.17
FLATHEAD RIVER AT COLUMBIA FALLS						X							11	0.09
00940 CHLORIDE														
**********														
YELLOWSTONE RIVER AT HUNTLEY, MT	XX												11	0.09
POPLAR RIVER NEAR POPLAR, MT.	XX	X							O				12	0.25
00945 SULFATE														
**********														

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
MISSOURI RIVER NEAR LANDUSKY, MT				0									10	0.10
MISSOURI RIVER BELOW FORT PECK D						X		0	0				12	0.25
MISSOURI RIVER NEAR CULBERTSON,					X	X			0		0		12	0.33
YELLOWSTONE RIVER AT HUNTLEY, MT	XX												11	0.09
YELLOWSTONE RIVER AT FORSYTH, MT	X		0	X							0		11	0.36
YELLOWSTONE RIVER NEAR MILES CITY, MT.	X		0	X							0		11	0.36
YELLOWSTONE RIVER NEAR TERRY, MT	X	X	0	X	X						0		11	0.55
YELLOWSTONE RIVER NEAR SIDNEY, MT.	X	0		X	X					0	0	0	12	0.58
BURNS CREEK NEAR SAVAGE, MT.	XX	XX			XX	XX	X	XX	XX				9	0.78
POWDER RIVER AT MOORHEAD, MT,	XX	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	12	1.00
POWDER RIVER NEAR LOCATE, MT.	XX	XX	XX	XX	XX	XX	XX	XX		XX		XX	11	1.00
MIZPAH CREEK AT OLIVE, MT.			XX	XX	XX	XX	XX						6	1.00
MIZPAH CREEK NEAR MIZPAH, MT.				XX	XX	XX	XX	XX		XX		XX	8	0.88
TONGUE RIVER AT STATE LINE NR DECKER MON	XX			X								0	10	0.30
TONGUE RIVER AT TONGUE R DAM, NE			X	X	X							0	9	0.44
TONGUE RIVER NR HANGING WOMAN C.	0		X	X	X								9	0.56
TONGUE R AT BIRNEY DAY SCHOOL BR NR BIRN											0	X	3	0.67
TONGUE R NR BRANDENBERG BRIDGE,		X	X	X	X					0		X	8	0.75
TONGUE RIVER AT MILES CITY, MT.	X	X		XX	X					0	X	X	11	0.64
PUMPKIN CREEK NEAR LOESCH, MT.			XX	XX	XX	XX	XX						6	1.00
PUMPKIN CREEK NEAR MILES CITY MT				XX	XX	XX	XX				XX	XX	8	0.75
OTTER CREEK NEAR OTTER MT		XX	XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
OTTER CREEK BELOW FIFTEENMILE CREEK NR O		XX	XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
OTTER CREEK AT ASHLAND, MT.		XX	X	XX	XX	XX	XX		XX	XX		XX	9	1.00
HOME CREEK NEAR ASHLAND MT		XX	XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
COW CREEK NEAR COLSTRIP MT										XX	XX		3	1.00
PRAIRIE DOG CREEK NEAR BIRNEY MT				X	X	XX	XX	XX					6	1.00
EAST TRAIL CREEK NEAR OTTER MT			XX										3	1.00
HUSTER CREEK NEAR KINSEY MT				0	XX		X						4	0.75
CUSTER CREEK NEAR KINSEY MT				XX	XX		X						4	0.75
CHERRY CREEK NEAR TERRY MT				XX	XX	XX							3	1.00
DIFFALON CREEK NEAR ISMAY, MT.	XX	XX	0	X	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
CLEAR CREEK NEAR BOYT MT		XX		XX	XX	XX							5	0.80
UPPER SEVENMILE CREEK NEAR LINDSAY MT			XX	XX	XX	XX							4	1.00
GLENDIVE CREEK NEAR GLENDIVE MT			X	0	XX			XX	XX	XX			6	1.00
DEER CREEK NEAR GLENDIVE MT				XX	XX	XX		XX					5	0.80
COTTONWOOD CREEK NEAR INTAKE MT			X	XX	XX	XX	XX	XX					6	1.00
BEAVER CREEK AT MIRAUX MT	XX	XX	X	X	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
HANGING WOMAN CREEK BL HORSE CREEK NR BI		XX	XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
HANGING WOMAN CREEK NEAR BIRNEY,			XX	XX	XX	XX	XX		XX	XX		XX	9	1.00
SQUIRREL CREEK NR DECKER, MT.		X	X		0	X	X		X	X		XX	8	0.89
ROSEBUD CREEK NEAR COLSTRIP, MT.		X		X	0	X	X	X	X	X		X	9	1.00
ROSEBUD CREEK AT MOUTH, NEAR ROS		X		XX	X	X	X		XX	XX		XX	9	0.89
EAST FORK ARMELLS CREEK NEAR COL			XX	XX	XX	XX				XX		XX	6	1.00
ARMELLS CREEK NEAR FORSYTH, MT.				0	XX	XX	XX	XX	XX	XX		XX	9	1.00
SARPY CREEK NEAR HYSHAM, MT.		XX	X	XX	XX	XX	XX		XX	XX		XX	9	1.00
BIGHORN RIVER NEAR ST. XAVIER, M	0	X	X	X	X	X	0	X	X	0		X	11	1.00
BIGHORN RIVER AT BIGHORN, MT.	0	X	X	XX	X	X	X	X	X	X	X		11	1.00
LITTLE BIGHORN RIVER NEAR HARDIN	X	X	X	XX	X				0				11	0.55
FLY CREEK AT POMPEYS PILLAR, MT.	XX	XX	XX	XX	XX	XX	X	X	X	X	XX		11	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDANCE PROBABILITY
BIG MUDDY CREEK NEAR ANTELOPE MT						XX		XX		XX	XX	XX	7	0.71
POPLAR RIVER AT INTERNATIONAL BO							XX	X	XX	X	O		11	0.45
POPLAR RIVER NEAR SCOBEY	XX							X	X	X			9	0.44
POPLAR RIVER ABOVE WEST FORK NEA						O	O	X	X	X	X	X	11	0.73
POPLAR RIVER NEAR POPLAR, MT.	O	O							O		O	O	12	0.42
EAST POPLAR RIVER AT INTERNATIO	X	X						X	X	O	X	X	14	0.57
EAST FORK POPLAR RIVER NEAR SCOB								X	X	X	X	X	12	0.58
ROCK CREEK BELOW HORSE CREEK, NE	X							X	XX	XX	X	X	11	0.55
MCEACHERN CREEK AT INTERNATIONAL					O								3	0.33
BEAVER CREEK AT INTERNATIONAL BOUNDARY						X			X			X	4	0.75
REDWATER RIVER AT CIRCLE, MT,	XX	XX	O	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
REDWATER RIVER NEAR VIDA, MT.	XX	XX	X		XX	XX	XX	XX	XX	XX	XX	XX	12	0.92
PRAIRIE ELK CREEK NEAR OSWEGO MT	XX				XX	XX	XX	XX	XX				8	0.75
MILK RIVER AT JUNEBERG BRIDGE NEAR SACO	XX	XX	XX				X	O	X	X	XX	XX	12	0.75
MILK RIVER AT NASHUA, MT.	XX	XX			O	X	X	X	X	X		XX	12	0.83
CROW ROCK CREEK NEAR COHAGEN MT				X	XX	XX							4	0.75
NELSON CREEK NEAR VAN NORMAN, MT.				X	XX	XX	XX						5	0.80
TIMBER CREEK NEAR VAN NORMAN, MT			XX		XX	XX	XX	XX	XX				6	1.00
HALF BREED CREEK NEAR KLEIN MT	XX	X	X	XX	XX	XX	X	X	XX	XX	XX	X	12	1.00
EAST PARROT CREEK NEAR ROUNDUP MT					X	XX	XX	XX	XX	XX	XX	XX	8	1.00
WEST PARROT CREEK NEAR ROUNDUP M	X	X	X	X	X	X	X	X	X	X	X	X	12	1.00
FATTIG CREEK NEAR DELPIA MT	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
MUSSELSHELL RIVER NEAR ROUNDUP,	XX	XX	X	XX	X	X		XX	XX	XX	XX	XX	14	0.93
MUSSELSHELL RIVER AT MOSBY, MT.	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	13	1.00
SUN RIVER NEAR VAUGHN, MT.			X							O			11	0.18
MUDDY CREEK NEAR VAUGHN, MT.	O	O	X	XX								X	10	0.50
MUDDY CREEK AT VAUGHN, MT.	O	X	X	XX						O			9	0.56

00720 CYANIDE

YELLOWSTONE RIVER AT HUNTLEY, MT												XX	7	0.50

01034 CHROMIUM

POWDER RIVER NEAR LOCATE, MT.										XX			4	0.25
CUSTER CREEK NEAR KINSEY MT					XX								2	0.50

01042 COPPER

MISSOURI RIVER NEAR LANDUSKY, MT				X									3	0.33
YELLOWSTONE RIVER AT LAUREL MT							XX						1	1.00
TONGUE RIVER AT MILES CITY, MT.							XX						4	0.25
CUSTER CREEK NEAR KINSEY MT			XX		XX								2	1.00
CUSTER CREEK NEAR KINSEY MT			XX										2	0.50
GLENDIVE CREEK NEAR GLENDIVE MT				XX									2	0.50
ROSEBUD CREEK AT MOUTH, NEAR ROS			X										2	0.50
BIGHORN RIVER AT BIGHORN, MT.							XX						4	0.25
POPLAR RIVER NEAR SCOBEY				X									2	0.50
POPLAR RIVER NEAR POPLAR, MT.				X									2	0.50
ROCK CREEK BELOW HORSE CREEK, NE				XX									2	0.50

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
PRAIRIE ELK CREEK NEAR OSWEGO MT				XX									2	0.50
MILK RIVER AT HASHUA, MT.			XX										3	0.33
NELSON CREEK NEAR VAN NORMAN, MT.			0										2	0.50
MUSSELSHELL RIVER NEAR ROUNDUP,						X							3	0.33
MUSSELSHELL RIVER AT MOSBY, MT.			X			0							4	0.50
CLARK FORK BELOW MISSOULA, MT.					X								4	0.25
FLATHEAD RIVER AT COLUMBIA FALLS								XX					3	0.33
01051 LEAD														
**********														
MUSTER CREEK NEAR KINSEY MT			XX										1	1.00
01092 ZINC														
**********														
MUSTER CREEK NEAR KINSEY MT			X		XX								2	1.00
GLENDIVE CREEK NEAR GLENDIVE MT				X									1	1.00
01027 CADMIUM														
**********														
MUSTER CREEK NEAR KINSEY MT			X										2	0.50
ROCK CREEK BELOW HORSE CREEK, NE				X									2	0.50

PROCESSING COMPLETE FOR REQUESTED PERIOD

Reproduced from best available copy.

Table 6. Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Missouri R blw Canyon Ferry Dam			D								
Missouri R at Virgelle				D			D				
Missouri R blw Ft Peck Dam	D	D		D	I	D	D	D		D	D Zn
Missouri R nr Culbertson		I (Kjeldahl) D (NO_2 & NO_3)					D	D		D	
St Mary R at Int'l Bdry										D	
Yellowstone R nr Livingston										D	
Yellowstone R at Billings				D				D		D	D Se
Yellowstone R at Huntley				D*			D*			D	
Yellowstone R at Forsythe				D			D			D	
Yellowstone R nr Miles City				D			D			D	
Yellowstone R nr Terry				D			D			D	
Yellowstone R nr Sidney		D									
Powder R nr Locate				D*		D	D*			D	
Mizpah Cr nr Mizpah				D*			D*	D		D	
Tongue R at State line		D		D*			D*				
Tongue R at Tongue R Dam		D		D			D	D		D	
Tongue R blw Hanging Woman Cr		D*					D			D	
Tongue R blw Brandenberg Br				D			D			D	
Tongue R at Miles City				D*						D	
Pumpkin Cr nr Miles City				D*			D*	D		D	
Otter Cr at Ashland				D*			D*			D	
Hanging Woman Cr nr Birney			I	D*			D*	D		D	
Squirrel Cr nr Decker							D*				

Table 6 (continued). Water Quality Trends

MONTANA

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Rosebud Cr nr Colstrip							D				
Armells Cr nr Forsythe			I*								
Bighorn R nr St Xavier			I							I	
Bighorn R at Bighorn	I		I	D			D*				
Little Bighorn R nr Hardin				D*			D*	D			
Poplar R at Int'l Bdry			D	D*			D*				
Poplar R nr Scobey		D*									
W Fork Poplar R nr Bredette				D							D As
E Fork Poplar R at Int'l Bdry		D	D		I					I	
E Fork Poplar R nr Scobey										I	
Beaver Cr at Int'l Bdry											D Hg
Redwater R at Circle		D		D*			D*			D	
Redwater R nr Vida		D*									
Timber Cr nr Van Norman				D*			D*	D			
W Parrot Cr nr Roundup		D*		D*			D				
Fattig Cr nr Delpia				D*			D*			D	
Musselshell R nr Roundup								I			
Beaverhead R nr Twin Br				D			D			D	
Lake Koocanusa at Int'l Bdry		D	I	D			D	D		D	D Pb
Lake Koocanusa at Ten Mile Cr		D	I	D							D Pb
Lake Koocanusa at Forebay			I	D							D Pb
Kootenai R blw Libby Dam			I	D							

Table 6 (continued). Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Birch Cr Nr Valier				I							
Otter Cr Nr Otter						D					
Cottonwood Cr Nr intake					I						
Big Sand Cr at WY-MT Line					I *						
Poplar R Nr Poplar			D		I *	D					
Milk R at Nashua				D *							
Little Peoples Creek											D_{Hg}
Marias R Nr Chester											I_{Zn}

Table 7. Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Fecal Coliform			
1. Red River of the North - Fargo	0.50	3	935
Nitrogen			
1. Red River of the North at Halstad, MN	1.00	9	1.95
2. Red River of the North at Hickson	0.89	6	1.78
3. Souris R nr Foxholm	0.83	9	1.62
Phosphorus			
1. Red River of the North at Halstad, MN	1.00	9	0.30
2. Red River of the North - Fargo	0.82	9	0.27
3. Souris R nr Verendrye	0.78	7	0.35
4. Red River of the North at Hickson	0.89	6	0.20
5. Bois de Sioux R-Wahpeton	1.00	4	0.25
6. Red River of the North - Grand Forks	0.80	8	0.15
7. Souris R - Kramer	0.70	7	0.15
8. Souris R - Towner	0.58	7	0.15
Dissolved Solids			
1. Souris R nr Foxholm	0.54	6	5599
2. Souris R nr Sherwood	0.83	10	718
3. Souris R nr Verendrye	0.70	7	660
4. Park R on I-29	0.63	5	880
5. Forest R blw Minto	0.67	6	625
6. Park R blw Park River	1.00	3	774

Table 7 (Continued). Ranking of Critical Water Quality Stations by Pollutant Group

Suspended Sediment	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
1. Pembina R at Walhalla	0.54	3	1063
2. Pembina R nr Vang	0.58	3	832
3. Little South Pembina R nr Walhalla	0.45	3	409
4. Red River of the North at Hickson	0.67	4	96

TABLE 8. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00300 DO														
**********														
RED RIVER OF THE NORTH AT HICKSON, ND			XX										9	0.11
RED RIVER OF THE NORTH AT HALSTAD, MN	X	X	XX										11	0.27
SOURIS RIVER NR SHERWOOD, ND	XX	XX											20	0.25
SOURIS R - TOWNER, ND		XX											2	0.50
SOURIS R KRAMER NORTH DAKOTA		X											2	0.50
FOREST R 8 MILES EAST OF MINTO		XX											1	1.00
31616 FEC COLI														
**********														
BOIS DE SIOUX R - WAHPETON, ND					O								3	0.33
RED R - FARGO, ND			XX	XX								XX	8	0.50
PARK RIVER ON I-29 NORTH DAKOTA								X					4	0.25
FOREST R 8 MILES EAST OF MINTO								X					4	0.25
31625 FEC COLI														
**********														
RED RIVER OF THE NORTH AT HALSTAD, MN							X		X				10	0.20
SOURIS RIVER NR FOXHOLM, ND								X					11	0.09
PEMBINA RIVER AT WALHALLA, ND				X									16	0.13
PEMBINA RIVER NR VANG, ND				O									10	0.10
31501 TOT COLI														
**********														
SOURIS RIVER NR SHERWOOD, ND						X	O						16	0.13
00615 NO2-N														
**********														
SOURIS RIVER NR SHERWOOD, ND													20	0.05
00600 TOTAL N														
**********														
RED RIVER OF THE NORTH AT HICKSON, ND	X		X	XX		X		X				X	9	0.89
RED RIVER OF THE NORTH AT HALSTAD, MN	XX	XX	X		XX	X	X		X	X		XX	10	1.00
SOURIS RIVER NR SHERWOOD, ND	X	X			X	XX			X		O	O	12	0.67
SOURIS RIVER NR FOXHOLM, ND	O	X	X		X	O			X	XX	XX	XX	13	0.83
PEMBINA RIVER AT WALHALLA, ND											X		3	0.33
00620 NO3-N														
**********														
BOIS DE SIOUX R - WAHPETON, ND				XX									4	0.25
RED R - FARGO, ND			X	XX									11	0.18
00630 NO2&NO3														
**********														
RED RIVER OF THE NORTH AT HICKSON, ND				XX									9	0.11
RED RIVER OF THE NORTH AT HALSTAD, MN					X								10	0.10

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

Reproduced from best available copy.

TABLE 8. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00665 PHOS-TOT														
ROTS OF SIOUX R - WAHPETON, ND	XX			XX	X					X			4	1.00
RED RIVER OF THE NORTH AT HICKSON, ND	XX		X	XX		XX		X	X				9	0.89
RED R - FARGO, ND	XX		XX	XX	X		0	XX		X	X	0	11	0.82
RED RIVER OF THE NORTH AT HALSTAD, MN	XX	XX	X		XX	XX	XX		XX	X		XX	10	1.00
RED R - GRAND FORK, ND		0	XX		XX		X	X		XX	X	X	10	0.90
RED R - PEMBINA, ND							X			X			3	0.67
SOURIS RIVER NR SHERWOOD, ND			X	X	X	X	X						20	0.50
SOURIS RIVER NR FOXHOLM, ND					X		XX	X	X	XX	XX	X	13	0.62
SOURIS RIVER NR VERENDRYE, ND	X	X			XX	XX	XX		XX	XX			9	0.78
SOURIS R - TOWNER, ND		XX			X		X	X	XX	XX		X	12	0.58
SOURIS R KRAMER NORTH DAKOTA		X			X		X	X	X	XX		XX	10	0.70
PARK RIVER ON I-29 NORTH DAKOTA												0	8	0.13
FOREST RIVER NEAR FORDVILLE N. D					0								2	0.50
FOREST R 8 MILES EAST OF MINTO					0								9	0.11
00650 T P04														
RED RIVER OF THE NORTH AT HICKSON, ND				XX				X					6	0.50
RED RIVER OF THE NORTH AT HALSTAD, MN					XX	XX	XX						3	1.00
SOURIS RIVER NR SHERWOOD, ND					X	0							10	0.30
SOURIS RIVER NR FOXHOLM, ND					X	0							3	1.00
SOURIS RIVER NR VERENDRYE, ND					X	XX							3	0.67
70300 RESIDUE														
SOURIS RIVER ABOVE MINOT, ND										X			2	0.50
RED RIVER OF THE NORTH AT HALSTAD, MN	X	X											10	0.20
SOURIS RIVER NR SHERWOOD, ND	XX	XX	X	X		0	X	X	X	X	X	XX	20	0.90
SOURIS RIVER NR FOXHOLM, ND	X	X	X								0	X	13	0.46
SOURIS RIVER NR VERENDRYE, ND	X	X	X				0	X	X	XX			9	0.78
SOURIS RIVER NR BANTRY, ND										X			3	0.67
DEEP RIVER NR UPHAM, ND									X				3	0.33
DEEP RIVER BELOW CUT BANK CREEK NR UPHAM						X	X	X	X				5	0.80
CUT BANK CREEK AT N LAKE OUTLET NR GRANV									X				2	0.50
DES LACS RIVER AT FOXHOLM, ND										X	X		4	0.75
PEMBINA RIVER AT WALHALLA, ND	X	0	0			0	X	X	0	X	X		11	0.82
PEMBINA RIVER AT NECHE, ND									X				2	0.50
PEMBINA RIVER NR VANG, ND		X					0		0				8	0.38
LITTLE SOUTH PEMBINA RIVER NR WALHALLA,		X					0		X				7	0.43
PARK RIVER AT GRAFTON, ND									X				2	0.50
FOREST RIVER AT MINTO, ND											0	X	4	0.50
70301 DISS SOL														
RED R - FARGO, ND		X											11	0.09
SOURIS RIVER ABOVE MINOT, ND										X			2	0.50
RED RIVER OF THE NORTH AT HALSTAD, MN	X	0											10	0.20
RED R - GRAND FORK, ND	X	XX											10	0.20

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 8. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
RED R - PEMBINA, ND	X												3	0.33
SOURIS RIVER NR SHERWOOD, ND	XX	YX	X			0	Y	X	Y	X	Y	YX	12	0.83
SOURIS RIVER NR FOXHOLM, ND	Y	X	Y					YX			0	X	13	0.54
SOURIS RIVER NR VERENDRYE, ND	Y	X	Y				0	X	Y	YX			10	0.70
SOURIS R - TOWNER, ND	Y			X				X	Y	X		X	12	0.58
SOURIS RIVER NR RANTRY, ND										X			3	0.67
SOURIS R KRAMER NORTH DAKOTA				X				X	Y	X		X	9	0.56
DEEP RIVER NR UPHAM, ND									Y				3	0.33
DEEP RIVER BELOW CUT BANK CREEK NR UPHAM						0	X	X	Y				5	0.80
CUT BANK CREEK AT N LAKE OUTLET NR GRANV									Y				2	0.50
DELACS R - FOXHOLM, ND				X									2	0.50
DES LACS RIVER AT FOXHOLM, ND										X	Y		4	0.75
PEMBINA RIVER AT WALHALLA, ND	Y	0	X					X	0	0		X	11	0.64
PEMBINA RIVER AT NECHE, ND									0				2	0.50
PEMBINA RIVER NR VANG, ND		X					0		0				8	0.38
LITTLE SOUTH PEMBINA RIVER NR WALHALLA,		0							0				7	0.29
PARK RIVER AT GRAFTON, ND									Y				2	0.50
PARK RIVER ON I-29 NORTH DAKOTA			X				XX			X	X	XX	8	0.63
PARK R 6 MILES EAST OF PARK R.	XX						X			X			3	1.00
FOREST RIVER NEAR FORDVILLE N. D						0							2	0.50
FOREST RIVER AT MINTO, ND											0	X	4	0.50
FOREST RIVER NEAR MINTO N. D.	Y						0						3	0.67
FOREST R 8 MILES EAST OF MINTO		X	X				XX	X			0	X	6	0.67
00095 CNDUCTVY														
**********														
RED RIVER OF THE NORTH BELOW FARGO, ND	0												11	0.09
SOURIS RIVER ABOVE MINOT, ND	Y	X		0					Y	X	Y		14	0.50
RED RIVER OF THE NORTH AT HALSTAD, MN	Y	0											16	0.13
SOURIS RIVER NR SHERWOOD, ND	Y	YX	X				Y	X	Y	X	Y	X	21	0.76
SOURIS RIVER NR FOXHOLM, ND	Y	X	X	X								0	23	0.48
SOURIS RIVER NR VERENDRYE, ND	Y	X	X					X	Y	X	Y		20	0.60
SOURIS R - TOWNER, ND								X	Y	X		X	7	0.57
SOURIS RIVER NR RANTRY, ND	Y		X	X					0	X	Y		12	0.67
SOURIS R KRAMER NORTH DAKOTA								X	Y	X		X	7	0.57
DEEP RIVER NR UPHAM, ND						0	Y	0	Y				8	0.50
DEEP RIVER BELOW CUT BANK CREEK NR UPHAM						0	0	0	Y				5	0.80
CUT BANK CREEK AT N LAKE OUTLET NR GRANV						0	Y	0	Y	X	Y		10	0.70
DES LACS RIVER AT FOXHOLM, ND	XY	YX				0	X	X	Y	X	Y		16	0.69
PEMBINA RIVER AT WALHALLA, ND	0	0	0					0			X	X	17	0.41
PEMBINA RIVER AT NECHE, ND	Y	0	Y					0	0				12	0.50
PEMBINA RIVER NR VANG, ND		X	X					0					13	0.31
LITTLE SOUTH PEMBINA RIVER NR WALHALLA,		0	0			0			0		0	X	15	0.47
PARK RIVER AT GRAFTON, ND	Y					X		X	Y		Y	X	13	0.46
PARK RIVER ON I-29 NORTH DAKOTA							XY			X	Y	X	7	0.57
SOUTH BRANCH PARK RIVER BELOW HOMME DAM,	Y	0	0						0				12	0.33
PARK R 6 MILES EAST OF PARK R.							Y			X			2	1.00
FOREST RIVER NR FORDVILLE, ND	0												13	0.08
FOREST RIVER AT MINTO, ND	Y	X									0	X	12	0.33
FOREST R 8 MILES EAST OF MINTO							XY	0				X	7	0.43

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 8. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
80154 SUSP SED														
**********														
RED RIVER OF THE NORTH AT HICKSON, ND				X		X		XX	X				9	0.67
RED RIVER OF THE NORTH AT HALSTAD, MN					X	X	XX						9	0.56
SOURIS RIVER NR SHERWOOD, ND				0									10	0.10
PEMBINA RIVER AT WALHALLA, ND				XX	XX	XX							13	0.54
PEMBINA RIVER NR VANG, ND				XX	XX	XX							12	0.58
LITTLE SOUTH PEMBINA RIVER NR WALHALLA,				XX	XX		X						11	0.45
00940 CHLORIDE														
**********														
RED R - GRAND FORK, ND		X											10	0.10
RED R - PEMBINA, ND	0												3	0.33
PARK RIVER ON I-29 NORTH DAKOTA							XX						8	0.13
FOREST R 8 MILES EAST OF MINTO							XX						9	0.11
00945 SULFATE														
**********														
RED R - FARGO, ND		0											11	0.09
RED R - GRAND FORK, ND		X											10	0.10
RED R - PEMBINA, ND	X												3	0.33
00720 CYANIDE														
**********														
BOIS DE SIOUX R - WAHPETON, ND	XX												1	1.00
RED R - FARGO, ND	XX												1	1.00
71900 MERCURY														
**********														
RED RIVER OF THE NORTH AT HALSTAD, MN					XX								5	0.20
SOURIS RIVER NR SHERWOOD, ND					XX								2	0.50
01042 COPPER														
**********														
RED R - GRAND FORK, ND							XX						2	0.50
01051 LEAD														
**********														
RED R - GRAND FORK, ND							XX						2	0.50
01092 ZINC														
**********														
RED R - GRAND FORK, ND							XX						2	0.50

PROCESSING COMPLETE FOR REQUESTED PERIOD

Reproduced from best available copy.

Table 9. Water Quality Trend Table

NORTH DAKOTA

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Red R of the North-Fargo											I_{Mg}
Red R of the North at Halstad, MN											D_{Hg*}
Red R of the North at Grand Forks			I*	I*							
Souris R nr Westhope	I			I*							D_{Hg}
Pembina R nr Vang			D								
Sheyenne R at Lisbon				I							
Sheyenne R nr Kindred		D*	D*	I		D				I	D_{Hg*}
Wild Rice R nr Abercrombie					D*						
Missouri R nr Williston			I	D			D				I_{As}
Missouri R nr Garrison Dam				D			D	D		D	D_{Cd}
Missouri R nr Garrison Dam											D_{Hg}
Missouri R at Bismarck		D		D						I	
Missouri R nr Schmidt	I*	D		D			D			I	
James R nr Manfred				D							
James R at Lamoure				I*							
Buffalo Cr T b. nr Gascoyne					I						
Cannonball R at Breien											I_{Cd}
Heart R nr South Heart		I*		D*	I						
Square Butte Cr blw Center				D							
Knife R at Hazen		D									I_{Cd}
Little Missouri R nr Watford City		D*		D*			D				
Bear Den Cr nr Mandaree				D*							

Table 9 (continued). Water Quality Trend Table

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Deep R nr Upham								I		I	
Little S Pembina R nr Walhalla			D								
Park R on I-29								I*			
Forest R nr Minto								I*			
Goose R nr Hillsboro			I						D		D_{Mg}
Beaver Cr nr Finley										I	
Sheyenne R nr Warwick			D								
Sheyenne R blw Baldhill Dam		I									
Sheyenne R - Valley City							I				
Baldhill Cr nr Dazey		I					I			D	
Pilot Drains at Oakes			D			—	D				
Cannonball R at Regent										I	
Elm Cr nr Golden Valley								I			
Charbonneau Cr nr Charbonneau										D	

Table 10. Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Fecal Coliform			
1. Whitewood Cr blw Deadwood	1.00	12	57539
2. White R nr Kadoka	1.00	5	20000
3. Bad R nr Ft. Pierre	1.00	2	35000
4. Cheyenne R blw Plainview	1.00	3	16640
5. Cheyenne R nr Wasta	1.00	1	35000
6. White R nr Oglala	1.00	2	8200
7. Rapid Cr blw Rapid City	0.71	5	4410
8. S Fork Grand R nr Bison	1.00	1	11000
9. Big Sioux R nr Richland	0.67	8	1747
Nitrogen			
1. Cheyenne R at Edgemont	1.00	1	64.2
Phosphorus			
1. Rapid Cr blw Rapid City	1.00	7	2.11
2. Big Sioux R - Brandon to Richland	1.00	12	1.21
3. Rapid Cr nr Farmingdale	1.00	12	0.72
4. French Cr nr Custer	1.00	12	0.76
5. Box Elder Cr at New Underwood	1.00	7	0.97
6. James R abv Mitchell	1.00	12	0.36
7. Whitewood Cr blw Deadwood	1.00	11	0.33
8. White R nr Oglala	1.00	9	0.27
9. Little White R nr White River	1.00	8	0.27
10. Fall River at Mouth	1.00	12	0.17
Dissolved Solids			
1. Cheyenne R at Edgemont	0.75	9	3648
2. Belle Fourche R nr Elm Spgs	0.42	5	2544
3. N Fork Grand R nr Shadehill	0.56	5	2622
4. Bad R nr Ft Pierre	0.50	4	3650

Table 10 (Continued). Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Dissolved Solids			
5. Horse Cr nr Vale	0.33	4	3466
6. Moreau R nr Whitehorse	0.60	3	2450
Suspended Sediments			
1. White R nr Oacoma	0.78	7	7077
2. Cheyenne R at Cherry Cr	1.00	9	1750
3. Belle Fourche R nr Elm Spgs	1.00	10	1124
4. Moreau R nr Whitehorse	0.67	4	581
5. Big Sioux R at Akron, IA	0.89	8	182

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00300 DO														
**********														
MISSOURI R AT PIERRE SD									XX				12	0.08
BIG SIOUX RIVER ABOVE WATERTOWN		XX	XX										13	0.15
BIG SIOUX NEAR WATERTOWN	XX		XX										10	0.20
BIG SIOUX RIVER CEMETARY ROAD	O		X										12	0.17
BIG SIOUX RIVER NEAR BROOKINGS	X												12	0.08
BIG SIOUX RIVER AT BRANDON S DAK				X									14	0.07
BIG SIOUX RIVER EAST OF CANTON	XX	X											13	0.15
BIG SIOUX RIVER EAST OF HUDSON	XX	X											12	0.17
BIG SIOUX RIVER SE OF ALCESTER	X	X											12	0.17
BIG SIOUX R AT AKRON IA		XX											24	0.04
BIG SIOUX RIVER NEAR RICHLAND SD	XX	X											12	0.17
JAMES RIVER NEAR HECLA	X							O					10	0.20
JAMES R AT COLUMBIA SD									O				21	0.33
JAMES RIVER NEAR STRATFORD							X						9	0.11
JAMES RIVER ABOVE HURON		XX											12	0.08
JAMES RIVER ABOVE MITCHELL		XX											12	0.08
JAMES RIVER BELOW MITCHELL		XX											11	0.09
JAMES R NEAR SCOTLAND SD		XX											25	0.04
JAMES RIVER NORTH OF YANKTON		XX				O							12	0.17
KEYA PAHA RIVER NEAR WEWELA	X												10	0.10
WHITE RIVER NEAR KADOKA									X				8	0.13
WHITE R NEAR OACOMA SD	XX												25	0.04
CHEYENNE R NEAR BUFFALO GAP SD									X				1	1.00
BOX ELDER CRK AT NEW UNDERWOOD						O							8	0.13
MOREAU RIVER NEAR WHITEHORSE	XX	XX											5	0.40
S. FORK GRAND R. NORTH OF BISON	O												8	0.13
31616 FEC COLI														
**********														
BIG SIOUX NEAR WATERTOWN	XX		XX						X				10	0.30
BIG SIOUX RIVER NEAR BROOKINGS								XX	XX				11	0.18
BIG SIOUX RIVER NEAR DELL RAPIDS							XX	X					11	0.18
BIG SIOUX RIVER IN SIOUX FALLS					X		XX	XX					12	0.25
BIG SIOUX R AT NORTH CLIFF AVE A					XX	XX	XX	XX	XX	XX		XX	19	0.53
BIG SIOUX RIVER AT BRANDON S DAK						XX	XX	XX					14	0.29
BIG SIOUX RIVER EAST OF CANTON			XX			XX	XX	XX	XX		O		13	0.46
BIG SIOUX RIVER EAST OF HUDSON			XX			XX	XX	XX	X				12	0.42
BIG SIOUX RIVER SE OF ALCESTER			XX			XX	XX	XX	XX	X	XX		12	0.58
BIG SIOUX RIVER NEAR RICHLAND SD	O	XX	XX			X	XX	XX	XX		X		12	0.67
VERMILLION RIVER W OF CHANCELLOR							XX	X					11	0.18
VERMILLION R NEAR WAKONDA								XX					12	0.08
KEYA PAHA RIVER NEAR WEWELA						X							10	0.10
LITTLE WHITE R NEAR WHITE R SD		XX											9	0.11
BAD R NEAR FT PIERRE													6	0.0
FALL RIVER NEAR CONFLUENCE	XX												12	0.08
CHEYENNE RIVER SE OF PLAINVIEW							XX						9	0.11
BELLE FOURCHE R NEAR BELLE FOURC						XX	XX		O				11	0.27

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

Reproduced from best available copy.

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
BELLE FOURCHE R NEAR STURGIS							XX						12	0.08
BELLE FOURCHE NW OF ELM SPRINGS								X					12	0.08
0.5 MILES S JUNC U.S. HWY 85 385	XX						XX						4	0.50
WHITEWOOD CREEK NE OF DEADWOOD	XX	XX	XX	XX	XX	XX	XX	XX	X	XX	XX	XX	12	1.00
WHITEWOOD CREEK AT PLUMA	XX				XX								12	0.17
WHITEWOOD CREEK ABOVE HOMESTAKE	X	XX											12	0.17
WHITEWOOD CREEK NEAR WHITEWOOD			XX			X						XX	11	0.27
BELLE FOURCHE R NEAR BELLE FOURC						XX	XX		O				11	0.27
REDWATER R AT BELLE FOURCHE									XX				11	0.09
SPEARFISH CREEK MILE FROM RED WATER R								O					12	0.08
BOX ELDER CRK AT NEW UNDERWOOD						X							8	0.13
T1N R9E SECTION 30 RAPID CREEK						XX	XX	XX	XX	XX			7	0.71
RAPID CREEK NEAR FARMINGDALE			XX			X	XX	X					12	0.33
RATTLE CREEK NEAR KEYSTONE										X			12	0.08
SPRING CREEK AT SHERIDAN LAKE							XX						12	0.08
FRENCH CREEK NEAR CUSTER									X				12	0.08
S. FORK GRAND R. NORTH OF BISON													7	0.0
31615 FEC COLI														
**********														
WHITE RIVER NEAR OGLALA							XX	XX					2	1.00
WHITE RIVER NEAR KADOKA					X	XX	XX	XX	XX				5	1.00
LITTLE WHITE R NEAR WHITE R SD						X	XX	O					3	1.00
BAD R NEAR FT PIERRE						XX	XX						2	1.00
CHEYENNE R AT EDGEMONT							XX	X					2	1.00
CHEYENNE R NEAR WASTA							XX						1	1.00
CHEYENNE RIVER SE OF PLAINVIEW					XX	XX		XX					3	1.00
BELLE FOURCHE R NEAR BELLE FOURC								XX					1	1.00
BELLE FOURCHE R NEAR BELLE FOURC								XX					1	1.00
MOREAU RIVER NEAR USTA							XX						1	1.00
S. FORK GRAND R. NORTH OF BISON							XX						1	1.00
31625 FEC COLI														
**********														
BIG SIOUX R AT AKRON IA			XX		XX	XX		XX	XX	X	X	X	12	0.69
WHITE R NEAR DACOMA SD							XX	X			XX		12	0.25
CHEYENNE R AT CHERRY CREEK SD							XX						12	0.08
BELLE FOURCHE R AT WY-SD STATE L				O		X	X		O				12	0.33
BELLE FOURCHE R NEAR ELK SPRINGS						O	XX						11	0.18
31501 TOT COLI														
**********														
BIG SIOUX R AT NORTH CLIFF AVE A								X					16	0.31
00615 NO2-N														
**********														
CHEYENNE R AT EDGEMONT							XX						1	1.00
00600 TOTAL N														
**********														

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
BIG SIOUX R NEAR DELL RAPIDS SD	XX												18	0.06
00620 NO3-N														
**********														
BIG SIOUX RIVER ABOVE WATERTOWN	X												13	0.08
FALL RIVER NEAR CONFLUENCE									XX				12	0.08
00665 PHOS-TOT														
**********														
BIG SIOUX R NEAR DELL RAPIDS SD	XX	XX	X	XX	X	XX	XX	XX	XX	0	X		21	0.95
BIG SIOUX R AT NORTH CLIFF AVE A	XX	XX	XX	XX	XX	XX	XX		XX	XX	XX		21	0.86
BIG SIOUX R AT AKRON IA	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
JAMES R AT COLUMBIA SD				XX		XX	XX	XX	XX	X		XX	8	0.88
JAMES R AT HURON SD	XX	XX	XX	XX	XX	XX		XX	XX	XX	X	X	12	1.00
JAMES R NEAR SCOTLAND SD	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
WHITE R NEAR DACOMA SD	X	XX	XX	XX	XX	XX	XX	XX	XX		XX	X	12	0.92
CHEYENNE R NEAR BUFFALO GAP SD						XX							12	0.08
CHEYENNE R AT CHERRY CREEK SD		X	XX	XX			XX				XX		12	0.42
CHEYENNE R NEAR EAGLE BUTTE SD			X								XX		12	0.17
BELLE FOURCHE R AT WY-SD STATE L	XX		XX	XX		X	XX	0					12	0.50
BELLE FOURCHE R NEAR STURGIS SD				XX		XX							11	0.18
BELLE FOURCHE R NEAR ELM SPRINGS				XX		XX		X					8	0.38
HORSE CR NEAR VALE SD				XX	X	0							11	0.27
INLET CANAL NEAR BELLE FOURCHE S				X		X		XX					11	0.27
RAPID CR BELOW PACTOLA DAM SD					X								12	0.08
RAPID CR NEAR FARMINGDALE SD	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
CASTLE CR ABOVE DEERFIELD RES NE												XX	11	0.09
MOREAU R NEAR WHITEHORSE SD				XX				XX					7	0.29
00650 T PO4														
**********														
BIG SIOUX R NEAR DELL RAPIDS SD				XX	X	XX							5	1.00
BIG SIOUX R AT NORTH CLIFF AVE A				XX	XX	XX							5	0.80
BIG SIOUX R AT AKRON IA				XX	XX	XX							3	1.00
JAMES R AT COLUMBIA SD				XX	X	XX							3	1.00
JAMES R AT HURON SD				XX	XX	XX							3	1.00
JAMES R NEAR SCOTLAND SD				XX	XX	XX							3	1.00
WHITE R NEAR DACOMA SD					XX	XX	XX						3	1.00
CHEYENNE R NEAR BUFFALO GAP SD						XX							2	0.50
CHEYENNE R AT CHERRY CREEK SD							XX						3	0.33
CHEYENNE R NEAR EAGLE BUTTE SD							0						3	0.33
BELLE FOURCHE R NEAR STURGIS SD						XX							3	0.33
BELLE FOURCHE R NEAR ELM SPRINGS				XX		XX							3	0.67
HORSE CR NEAR VALE SD						0	0						3	0.67
INLET CANAL NEAR BELLE FOURCHE S				X		X							3	0.67
RAPID CR BELOW PACTOLA DAM SD					X								4	0.25
RAPID CR NEAR FARMINGDALE SD				XX	XX	XX	XX						4	1.00
70505 T PO4														
**********														

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
MISSOURI RIVER AT OAHE DAM										0			11	0.09
BIG SIOUX RIVER ABOVE WATERTOWN		XX	XX	XX	0	XX	X	XX	0	0			13	0.77
BIG SIOUX NEAR WATERTOWN	XX		XX	X	X	XX	XX	XX	XX		XX	XX	10	1.00
BIG SIOUX RIVER CEMETARY ROAD	XX	X		X	X	X	XX	XX	XX		X	X	12	0.83
BIG SIOUX RIVER NEAR BROOKINGS	X	X		X	X	XX	XX	XX	XX		X	XX	12	0.83
BIG SIOUX RIVER NEAR DELL RAPIDS	XX		XX	XX	X	XX	XX	XX	XX		X	X	11	0.91
BIG SIOUX RIVER IN SIOUX FALLS			XX	XX	X	XX	XX	XX	XX	XX	X	X	12	0.83
BIG SIOUX RIVER AT BRANDON S DAK	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	14	1.00
BIG SIOUX RIVER EAST OF CANTON	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00
BIG SIOUX RIVER EAST OF HUDSON	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
BIG SIOUX RIVER SE OF ALCESTER	XX	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	XX	12	1.00
BIG SIOUX RIVER NEAR RICHLAND SD	XX	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	XX	12	1.00
VERMILLION RIVER W OF CHANCELLOR			XX	XX		X	0	X		XX		0	11	0.64
VERMILLION R NEAR VAKONDA	0		XX	XX	XX	XX	X	XX	X	X		X	12	0.83
JAMES RIVER NEAR HECLA	XX		XX	XX		XX	XX	X	0		0		10	0.80
JAMES RIVER NEAR STRATFORD			XX	XX		XX	XX	XX	XX	XX		0	9	0.89
JAMES RIVER ABOVE HURON	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	X	0	12	1.00
JAMES RIVER ABOVE MITCHELL	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
JAMES RIVER BELOW MITCHELL	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
JAMES RIVER NORTH OF YANKTON	XX	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	XX	12	1.00
KEYA PAHA RIVER NEAR WEWELA	XX	XX	X	0	0	XX	X	0		X			10	0.90
WHITE RIVER NEAR OGLALA		XX	XX	X	X	X			X	XX	XX	X	9	1.00
WHITE RIVER NEAR KADOKA			X									XX	5	0.40
WHITE RIVER NEAR OACOMA	XX	XX	XX								0	XX	5	1.00
LITTLE WHITE R NEAR WHITE R SD	XX	XX	XX	XX	XX					X	XX	XX	8	1.00
BAD R NEAR FT PIERRE								XX		XX			6	0.33
CHEYENNE R AT EDGEMONT			XX										10	0.10
FALL RIVER NEAR CONFLUENCE	X	X	X	X	X	X	X	X	X	XX	XX	XX	12	1.00
CHEYENNE R NEAR HASTA	XX	XX	XX	XX				X			XX	XX	11	0.64
CHEYENNE RIVER SE OF PLAINVIEW	XX	XX		0							XX	XX	8	0.63
BELLE FOURCHE R NEAR BELLE FOURC				X									11	0.09
BELLE FOURCHE R NEAR STURGIS		XX	X	X						XX			11	0.36
BELLE FOURCHE NW OF ELM SPRINGS				XX									12	0.08
0.5 MILES S JUNC U.S. HWY 85 385	0												4	0.25
WHITEWOOD CREEK NE OF DEADWOOD	XX		XX	XX	XX	XX	XX	XX	XX	XX	X	XX	11	1.00
WHITEWOOD CREEK AT PLUMA	XX									XX		XX	12	0.25
WHITEWOOD CREEK ABOVE HOMESTAKE												0	12	0.08
WHITEWOOD CREEK NEAR WHITEWOOD			XX	X		X		XX	XX	XX	XX	XX	11	0.82
BELLE FOURCHE R NEAR BELLE FOURC				X									11	0.09
REDWATER R AT BELLE FOURCHE	XX	XX											12	0.17
BOX ELDER CRK AT NEW UNDERWOOD		XX	XX	XX	XX	XX	XX					XX	7	1.00
TIN BOX SECTION 30 RAPID CREEK					XX	XX	XX	XX	XX	XX	XX		7	1.00
RAPID CREEK NEAR FARMINGDALE	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00
SPRING CREEK AT SHERIDAN LAKE			X										12	0.08
SPRING CREEK SOUTHWEST OF RAPID									XX				10	0.10
GRACE COOLIDGE CREEK								X	X				10	0.20
FRENCH CREEK NEAR CUSTER	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
FRENCH CREEK IN CUSTER STATE PK.			X			X	X	X	XX	XX			10	0.60
MOREAU RIVER NEAR USTA				0		XX							6	0.33
MOREAU RIVER NEAR WHITEHORSE			XX										4	0.25

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
S. FORK GRAND R. NORTH OF BISON										O			7	0.14
GRAND RIVER NEAR LITTLE EAGLE			XX										6	0.17
N. FORK GRAND R. NEAR SHADEHILL			XX										8	0.13
LITTLE MISSOURI R AT CAMP CROOK				X			XX						3	0.67
00515 RESIDUE														
**********														
BIG SIOUX NEAR WATERTOWN	O												10	0.10
BIG SIOUX RIVER NEAR DELL RAPIDS								XX					11	0.09
JAMES RIVER ABOVE HURON		O											12	0.08
BAD R NEAR FT PIERRE										O			9	0.11
CHEYENNE R AT EDGEMONT											O		12	0.08
FALL RIVER NEAR CONFLUENCE						O	O	O	O	O		O	12	0.50
BELLE FOURCHE NW OF ELM SPRINGS		O											12	0.08
SPEARFISH CREEK MILE FROM RED WATER R	X												12	0.08
70300 RESIDUE														
**********														
BELLE FOURCHE R NEAR ELM SPRINGS		O											8	0.13
70301 DISS SOL														
**********														
HORSE CR NEAR VALE SD	X										O	O	11	0.27
00095 CNDUCTVY														
**********														
BIG SIOUX R AT NORTH CLIFF AVE A		X											21	0.14
BAD R NEAR FT PIERRE			O	X	X					XX			8	0.50
CHEYENNE R AT EDGEMONT	XX	XX		O	X	XX			X	X	XX	XX	12	0.75
CHEYENNE R NEAR BUFFALO GAP SD		X							O	O	X	X	13	0.46
CHEYENNE R NEAR WASTA													12	0.0
CHEYENNE RIVER SE OF PLAINVIEW	O										O	O	12	0.25
CHEYENNE R AT CHERRY CREEK SD	X	X	O									X	13	0.31
CHEYENNE R NEAR EAGLE BUTTE SD	X	X	X									X	12	0.33
BELLE FOURCHE R AT WY-SD STATE L	O	X								O		O	20	0.30
BELLE FOURCHE R NEAR BELLE FOURC	O		X										12	0.17
BELLE FOURCHE R NEAR STURGIS	X										O	X	12	0.25
BELLE FOURCHE R NEAR STURGIS SD				O							O	X	11	0.36
BELLE FOURCHE NW OF ELM SPRINGS	X	XX	X								O	X	12	0.42
BELLE FOURCHE R NEAR ELM SPRINGS	X	XX									X	X	25	0.16
HORSE CR NEAR VALE SD	XX				X						XX	XX	12	0.33
BELLE FOURCHE R NEAR BELLE FOURC	O		X										12	0.17
MOREAU RIVER NEAR WHITEHORSE	O	O										X	5	0.60
MOREAU R NEAR WHITEHORSE SD												X	7	0.14
S. FORK GRAND R. NORTH OF BISON	X									O			8	0.25
GRAND RIVER NEAR LITTLE EAGLE	X											O	6	0.33
N. FORK GRAND R. NEAR SHADEHILL	X	X				O	O	X					9	0.56
LITTLE MISSOURI R AT CAMP CROOK	O												3	0.33
00070 TURB														
**********														

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
BIG SIOUX R NEAR DELL RAPIDS SD				X									7	0.14
BIG SIOUX R AT NORTH CLIFF AVE A				XX									8	0.38
BELLE FOURCHE R AT WY-SD STATE L	XX		XX	XX		X	XX	X					12	0.50
00530 RESIDUE														
**********														
BIG SIOUX RIVER CEMETARY ROAD	X						XX	X	X				12	0.33
BIG SIOUX RIVER NEAR BROOKINGS								XX	XX				12	0.17
BIG SIOUX R NEAR DELL RAPIDS SD								X					3	0.67
BIG SIOUX RIVER NEAR DELL RAPIDS						0		X	0				10	0.30
BIG SIOUX RIVER IN SIOUX FALLS			X						X				12	0.17
BIG SIOUX RIVER AT BRANDON S DAK				X			X		0				14	0.36
BIG SIOUX RIVER EAST OF CANTON			XX	X		X	XX	XX	X				13	0.46
BIG SIOUX RIVER EAST OF HUDSON			XX	XX	0	XX	XX	X	X				12	0.58
BIG SIOUX RIVER SE OF ALCESTER			X	XX	0	XX	XX	X	X				12	0.58
BIG SIOUX RIVER NEAR RICHLAND SD			X	X	0	XX	XX	XX	X				12	0.58
VERMILLION RIVER W OF CHANCELLOR	XX												11	0.09
VERMILLION R NEAR WAKONDA	X			X		XX	0	X	0				12	0.50
JAMES RIVER ABOVE MITCHELL						X		0					12	0.17
JAMES RIVER BELOW MITCHELL				X		X		0				XX	12	0.33
JAMES RIVER NORTH OF YANKTON			0	X		XX	Y	XX	X				12	0.50
KEYA PAHA RIVER NEAR WEWELA		XX	XX	X		XX	X						10	0.50
WHITE RIVER NEAR OGLALA			XX	XX	X	X	XX	XX	XX				11	0.64
WHITE RIVER NEAR KADOKA			XX	XX	XX	XX	XX	XX	XX				10	0.70
WHITE RIVER NEAR OACOMA			XX								XX	XX	5	0.60
LITTLE WHITE R NEAR WHITE R SD			XX	XX	XX	XX	XX	XX	XX	X			12	0.67
BAD R NEAR FT PIERRE			XX			XX	XX	XX		XX			8	0.63
CHEYENNE R AT EDGEMONT	X		XX	XX			XX	XX					12	0.42
CHEYENNE R NEAR WASTA				XX			XX	0			XX		12	0.33
CHEYENNE RIVER SE OF PLAINVIEW			XX	XX	XX	XX	XX	XX				0	12	0.58
BELLE FOURCHE R NEAR BELLE FOURC				XX		XX	XX	XX					12	0.33
BELLE FCHE. R. BELOW CONFLUENCE				XX									3	0.33
BELLE FOURCHE R NEAR STURGIS				XX		XX	Y	X	0				12	0.42
BELLE FOURCHE NW OF ELM SPRINGS				YX		XX		XX	0				12	0.33
0.5 MILES S JUNC U.S. HWY 85 365				X									4	0.25
WHITEWOOD CREEK NE OF DEADWOOD	XX		XX	X				X	0			XX	12	0.50
WHITEWOOD CR. ABOVE GOLD RUN CR.				XX									3	0.33
WHITEWOOD CREEK AT PLUMA	0												11	0.09
WHITEWOOD CREEK AT DEADWOOD	XX			XX									3	0.67
WHITEWOOD CREEK ABOVE HOMESTAKE			X										12	0.08
WHITEWOOD CREEK AT CROOK CITY				X									3	0.33
WHITEWOOD CREEK NEAR WHITEWOOD												XX	11	0.09
WHITEWOOD CR. ABOVE BELLE FCHE.				YX									3	0.33
BELLE FOURCHE R NEAR BELLE FOURC				XX		XX	XX	XX					12	0.33
REDWATER R AT BELLE FOURCHE			XX					X					12	0.17
SPEARFISH CR IN SPEARFISH,SD	XX												12	0.08
SPEARFISH CREEK MILE FROM RED WATER R	XX								Y				12	0.17
RAPID CREEK NEAR ROCHFORD			XX										9	0.11
TIM RSF SECTION 30 RAPID CREEK							XX						7	0.14
RAPID CREEK NEAR FARMINGDALE				XX			XX	X					12	0.33

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
YX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
CASTLE CREEK NEAR MYSTIC			XX				XX	XX					9	0.33
BATTLE CREEK NEAR KEYSTONE							X						12	0.08
GRACE COOLIDGE CREEK										XX			10	0.10
MOREAU RIVER NEAR USTA			XX	XX			XX						7	0.43
MOREAU RIVER NEAR WHITEHORSE		XX	XX										5	0.40
S. FORK GRAND R. NORTH OF BISON			XX	XX			XX						8	0.38
GRAND RIVER NEAR LITTLE EAGLE			XX										6	0.17
LITTLE MISSOURI R AT CAMP CROOK				XX									3	0.33
70299 RES-SUSP														
**********														
BIG SIOUX R NEAR DELL RAPIDS SD								X					16	0.13
BIG SIOUX R AT NORTH CLIFF AVE A				X									16	0.13
BELLE FOURCHE R AT WY-SD STATE L	X		XX	XX		XX							7	0.57
80154 SUSP SED														
**********														
MISSOURI R AT PIERRE SD					O	XX	XX	XX	X				5	1.00
MISSOURI R AT FORT RANDALL SD	X												8	0.13
BIG SIOUX R NEAR DELL RAPIDS SD	XX	O			O	O	X	XX	XX				8	0.88
BIG SIOUX R AT AKRON IA		O	XX	XX	X	XX	XX	XX	XX				9	0.89
JAMES R AT COLUMBIA SD				X									6	0.17
JAMES R NEAR SCOTLAND SD	XX	XX	O	X		XX	XX	O	O				8	0.89
WHITE R NEAR OACOMA SD	XX			XX	XX	XX	XX	XX	XX				9	0.78
CHEYENNE R AT CHERRY CREEK SD	XX	XX	X	XX	XX	X	XX	XX	XX				9	1.00
BELLE FOURCHE R NEAR ELM SPRINGS	XX	XX	XX	XX	XX	XX	XX	XX	X	X			10	1.00
CASTLE CR ABOVE DEERFIELD RES NE	XX	X	XX	XX	XX	XX		X	O				10	0.80
MOREAU R NEAR WHITEHORSE SD				XX	X	X		XX					6	0.67
00940 CHLORIDE														
**********														
BIG SIOUX R AT NORTH CLIFF AVE A	X												4	0.25
00945 SULFATE														
**********														
JAMES R NEAR SCOTLAND SD	X	X											12	0.17
CHEYENNE R BELOW ANGOSTURA DAM S		X	X	X	X	X		X					6	1.00
CHEYENNE R NEAR BUFFALO GAP SD	XX	XX	X	X	XX	X	X	XX	XX	XX	XX	XX	12	1.00
CHEYENNE R AT CHERRY CREEK SD	XX	XX	XX	O	XX	XX	O	X	XX	XX	X	XX	12	1.00
CHEYENNE R NEAR EAGLE BUTTE SD	X	XX	XX	X	XX	XX	X	X	XX	XX	X	XX	12	1.00
BELLE FOURCHE R AT WY-SD STATE L	XX	XX	X	X	XX		X	X	XX	XX	XX	XX	12	0.92
BELLE FOURCHE R NEAR STURGIS SD	XX			XX	X	X	X	X	XX	X	XX	XX	11	1.00
BELLE FOURCHE R NEAR ELM SPRINGS		XX		X	X	X		X	X		XX	XX	8	1.00
HORSE CR NEAR VALE SD	XX		X	XX	XX	X	XX	X	XX	X	XX	XX	11	1.00
INLET CANAL NEAR BELLE FOURCHE S	O	O		X		X	X		X	X	O	O	11	0.82
MOREAU R NEAR WHITEHORSE SD					X	X	X					XX	7	0.57
GRAND R AT SHADEHILL SD	O			O				O		O			5	0.80
00608 NH3+NH4-														
**********														

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
BIG SIOUX NEAR WATERTOWN	X												1	1.00
VERMILLION R NEAR WAKONDA								X					6	0.17
JAMES RIVER ABOVE MITCHELL				X				XX					4	0.50
JAMES RIVER BELOW MITCHELL								XX					3	0.33
JAMES RIVER NORTH OF YANKTON								XX					6	0.17
T1N R9E SECTION 30 RAPID CREEK					X								2	0.50
RAPID CREEK NEAR FARMINGDALE								X					2	0.50
00610 NH3+NH4-														
BIG SIOUX RIVER AT BRANDON S DAK		XX		XX		X							9	0.44
BIG SIOUX RIVER EAST OF CANTON	X												8	0.13
BIG SIOUX RIVER EAST OF HUDSON	X										XX		8	0.25
BIG SIOUX RIVER SE OF ALCESTER	0										XX		8	0.25
BIG SIOUX RIVER NEAR RICHLAND SD	0										XX		8	0.25
JAMES RIVER NORTH OF YANKTON											X		6	0.17
WHITEWOOD CREEK NE OF DEADWOOD						X				X		XX	9	0.33
WHITEWOOD CREEK AT PLUMA					XX		X		XX	XX		XX	9	0.56
WHITEWOOD CREEK NEAR WHITEWOOD												XX	11	0.18
T1N R9E SECTION 30 RAPID CREEK										X			5	0.20
01002 ARSENIC														
WHITE R NEAR OACOMA SD							XX						4	0.25
BELLE FCHE. R. BELOW CONFLUENCE				XX									3	0.33
BELLE FOURCHE R NEAR ELM SPRINGS			XX				XX						3	0.67
WHITEWOOD CREEK AT DEADWOOD				XX									3	0.33
WHITEWOOD CREEK AT CROOK CITY	X			XX									3	0.67
WHITEWOOD CR. ABOVE BELLE FCHE.	XX			XX									3	0.67
01034 CHROMIUM														
WHITE R NEAR OACOMA SD							XX						4	0.25
CHEYENNE R AT CHERRY CREEK SD							XX						4	0.25
01147 SELENIUM														
WHITE R NEAR OACOMA SD													4	0.0
CHEYENNE R AT CHERRY CREEK SD													4	0.0
71900 MERCURY														
MISSOURI R AT PIERRE SD							XX						4	0.25
BIG SIOUX R NEAR DELL RAPIDS SD			X			X							8	0.25
WHITE R NEAR OACOMA SD										X			4	0.25
01042 COPPER														
WHITE R NEAR OACOMA SD							XX						4	0.25
CHEYENNE R AT CHERRY CREEK SD							XX						4	0.25

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
01051 LEAD														
**********														
WHITE R NEAR OACOMA SD							XX						4	0.25
01092 ZINC														
**********														
WHITE R NEAR OACOMA SD							XX						4	0.25
CHEYENNE R AT CHERRY CREEK SD							X						4	0.25
01027 CADMIUM														
**********														
JAMES R AT COLUMBIA SD							X						3	0.33
WHITE R NEAR OACOMA SD							XX						4	0.25

PROCESSING COMPLETE FOR REQUESTED PERIOD

Table 12. Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Missouri R at Oahe Dam			D	D			D		D		D_{Mg}
Missouri R at Pierre	D			D			D	D		D	D_{Hg}*
Missouri R at Big Bend				D	I		D				
Missouri R at Ft Randall				D	I		D				D_{Cd}
Big Sioux R abv Watertown	I*				I		I				
Big Sioux R Nr Brookings		I									
Big Sioux R Nr Dell Rapids		D*		D*			I				D_{Hg}
Big Sioux R at Sioux Falls			I*		D				I		
Big Sioux R at Brandon		I	I		D	I*					
Big Sioux R Nr Canton	D*	I	I*								
Big Sioux R Nr Hudson	D*	D									
Big Sioux R Nr Alcester		D	I*								
Big Sioux R at Akron, IA		D									D_{Zn}
Big Sioux R Nr Richland		D									
James R Nr Hecla					I						
James R at Columbia								I			
James R Abv Huron		I		I							
James R at Huron			D*								
James R abv Mitchell			D*	I							
James R Nr Scotland	D			I							
James R Abv Yankton			D*			D*					
Keya Paha R Nr Wewela			D*		D*			I			

Table 12 (continued). Water Quality Trends

SOUTH DAKOTA

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
White R Nr Oglala						I					
White R Nr Kadoka	D		D*								
White R Nr Oacoma											D_{Hg}
Little White R Nr White River			D*			D					
Cheyenne R at Edgemont						I					
Cheyenne R blw Angosture Dam				I			I			I	
Cheyenne R Nr Buffalo Gap			D*								
Cheyenne R Nr Wasta				D							
Cheyenne R at Cherry Cr											D_{Zn} D_{Cu}*
Cheyenne R Nr Eagle Butte			I *	D							
Belle Fourche R at Wy-SD Line				D	D*		D*				
Belle Fourche R Nr Belle Fourche				D		D					
Spearfish Cr at Spearfish				D							
Rapid Cr Nr Rochford								I			
Rapid Cr blw Pactola Dam										I	
Rapid Cr abv Rapid City	D		D				I	I			
Rapid Cr Nr Farmingdale				D							
Battle Cr Nr Keystone			D	D							
French Cr Nr Custer			D *								
French Cr in Custer St. Park				D							
Grand R Nr Little Eagle	D										
Grand R at Shadehill N Fork				I	I		I				
Grand R at Shadehill					I						

Table 13. Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Fecal Coliform			
1. Jordan R at 1700 S, SLC	0.71	5	5557
2. Virgin R at Bloomington	1.00	7	587
3. Jordan R at 5800 S, Murray	0.38	5	2208
4. Paria R at White House Ruins	0.33	3	1735
5. Virgin R at Littlefield	0.50	5	552
Nitrogen			
1. Jordan R at Cudahy Lane, SLC	0.53	6	4.34
2. Jordan R at 1700 S, SLC	0.60	5	4.57
3. Jordan R at 5800 S, Murray	0.53	7	3.70
Phosphorus			
1. Jordan R at 1700 S, SLC	1.00	10	3.56
2. Weber R nr Plain City	1.00	11	1.05
3. Jordan R at Cudahy Lane, SLC	1.00	9	1.06
4. Jordan R at 5800 S, Murray	1.00	11	0.57
5. San Juan R at Shiprock, NM	0.92	11	0.46
6. San Juan R at Bluff	0.80	7	0.35
7. Green R at Green River	0.80	7	0.30
8. Bear R at Corinne	1.00	10	0.18
Dissolved Solids			
1. Bitter Cr nr Bonanza	1.00	5	12576
2. San Rafael R nr Green River	1.00	8	3163
3. Ferron Cr nr Clawson	0.92	10	2284
4. Price R at Woodside	1.00	7	3284
5. Virgin R at Littlefield	1.00	11	1854
6. Paria R at White House Ruins	1.00	10	1751
7. Muddy Cr nr Hanksville	1.00	6	2258
8. Virgin R at Bloomington, AZ	0.89	8	1758
9. Jordan R - Murray to SLC	1.00	10	1100
10. Duchesne R nr Randlett	1.00	10	1046

Table 13 (Continued). Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Suspended Sediment			
1. San Juan R nr Shiprock, NM	1.00	12	5877
2. San Juan R nr Bluff	0.92	8	5268
3. Green R at Green River	0.92	8	5264
4. Muddy Cr nr Hanksville	1.00	5	6130
5. White R nr mouth	0.91	7	2428
6. Price R at Woodside	0.88	5	1901
7. Virgin R at Bloomington, AZ	1.00	7	516
8. Colorado R nr Cisco	0.82	6	683
9. Virgin R at Littlefield, AZ	1.00	6	480
10. Bear R nr Corinne	0.89	7	178
Trace Elements			
1. Jordan R at 1700 S, SLC	0.80	5	(Hg)

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00300 DO														
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA						0							9	0.11
GREEN RIVER AT GREEN RIVER, UTAH				X									7	0.14
PRICE RIVER AT WOODSIDE, UTAH							XX						8	0.13
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI							0						11	0.09
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE						X	X		X				12	0.33
31625 FEC COLI														
BEAR RIVER ABOVE RESERVOIR NEAR WOODRUFF				X									12	0.08
BEAR R AT BORDER WY									X				12	0.25
BEAR R NR CORINNE	0	X			0		X	XX	XX				9	0.78
COLORADO R AT LEES FERRY, AZ.											XX		12	0.08
VIRGIN R. AT BLOOMINGTON,UT	X		X		X	XX		XX	XX	XX			7	1.00
VIRGIN R AT LITTLEFIELD, AZ		XX	XX	XX	X					0			10	0.50
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA				XX				XX		XX			9	0.33
GREEN RIVER AT GREEN RIVER, UTAH		XX											8	0.13
WHITE RIVER AT MOUTH NEAR OURAY UTAH					0								8	0.13
DOLORES RIVER NEAR CISCO,UT.					X								6	0.17
JORDAN RIVER @ 5800 SO MURRAY UTAH		XX				XX	XX	XX	XX				13	0.38
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX			XX	XX	X	XX						7	0.71
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE				X		XX	XX	XX	XX				14	0.50
SEVIER RIVER NEAR LYNNDYL, UTAH						0							5	0.20
WEBER RIVER NR PLAIN CITY UTAH							X	X					9	0.22
JORDAN RIVER @ 5800 SO MURRAY UTAH		XX				XX	XX	XX	XX				13	0.38
31501 TOT COLI														
WHITE RIVER AT MOUTH NEAR OURAY UTAH								XX					8	0.13
JORDAN RIVER @ 5800 SO MURRAY UTAH		XX				XX	XX	XX	XX				12	0.50
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE						XX	XX	XX	XX				14	0.36
JORDAN RIVER @ 5800 SO MURRAY UTAH		XX				XX	XX	XX	XX				12	0.50
00600 TOTAL N														
SAN JUAN RIVER AT SHIPROCK, NM		X											12	0.08
PRICE RIVER AT WOODSIDE, UTAH					0								9	0.11
WHITE RIVER AT MOUTH NEAR OURAY UTAH				0				X				X	11	0.27
DOLORES RIVER NEAR CISCO,UT.											0		7	0.14
JORDAN RIVER @ 5800 SO MURRAY UTAH	0					0	X	0	0	0		X	17	0.53
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	X	0					X			X		X	10	0.60
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	X	X				0	X	X	X				15	0.53
JORDAN RIVER @ 5800 SO MURRAY UTAH	0					0	X	0	0	0		X	17	0.53
00665 PHOS-TOT														
BEAR RIVER ABOVE RESERVOIR NEAR WOODRUFF	X	XX		XX						XX		XX	12	0.50
BEAR R AT BORDER WY				X				X					12	0.17

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OPS	EXCEEDENCE PROBABILITY
REAR R NR CORINNE	X	XX	XX	XX	XX		XX	XX	XX		XX	X	11	1.00
COLORADO RIVER NEAR CISCO UTAH				XX	XX		XX						10	0.40
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB				XX	XX		XX						8	0.50
COLORADO R ABOVE MILL CREEK NEAR MOAB UT				XX	XX		XX						10	0.40
VIRGIN R AT LITTLEFIELD, AZ			X										3	0.33
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA			XX										1	1.00
SAN JUAN RIVER AT SHIPROCK, NM	XX	XX		XX	XX	X	X	XX	XX	XX	X	X	12	0.92
SAN JUAN RIVER NEAR BLUFF, UTAH		XX		XX	XX		XX		XX		XX	XX	10	0.80
GREEN RIVER NEAR GREENDALE, UTAH	X							XX					11	0.18
GREEN RIVER AT GREEN RIVER, UTAH	XX	X		XX	XX		XX		X		X		10	0.80
COTTONWOOD CR,ABV STR,CANYON,NR ORANGEVI											XX		2	0.50
PRICE RIVER AT WOODSIDE, UTAH				X	XX								9	0.33
WHITE RIVER AT MOUTH NEAR OURAY UTAH				XX	X	XX		X					11	0.36
DUCHESNE RIVER NEAR RANDLETT, UTAH				XX	X			XX					10	0.30
DOLORES RIVER NEAR CISCO,UT.					XX		X						7	0.29
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		XX	17	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX	XX	XX	XX	XX	XX	XX			XX	XX	XX	11	1.00
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	XX	XX	XX	XX	XX	XX	XX	XX	XX				15	1.00
SEVIER RIVER NEAR LYNNDYL, UTAH			X			X		XX				XX	10	0.40
WEBER RIVER NR PLAIN CITY UTAH	XX	XX	XX	XX	XX		XX	XX	XX	XX		XX	11	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		XX	17	1.00
00650 T P04														
**********														
REAR RIVER ABOVE RESERVOIR NEAR WOODRUFF				XX									3	0.33
REAR R AT BORDER WY				XX									3	0.33
REAR R NR CORINNE				XX	XX		XX						3	1.00
COLORADO RIVER NEAR CISCO UTAH					XX								2	1.00
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB					XX								2	1.00
COLORADO R ABOVE MILL CREEK NEAR MOAB UT					XX								2	1.00
SAN JUAN RIVER AT SHIPROCK, NM				XX	XX	X							3	1.00
SAN JUAN RIVER NEAR BLUFF, UTAH					XX								2	1.00
GREEN RIVER AT GREEN RIVER, UTAH					XX								2	1.00
PRICE RIVER AT WOODSIDE, UTAH					XX								2	1.00
WHITE RIVER AT MOUTH NEAR OURAY UTAH				XX									8	0.13
DUCHESNE RIVER NEAR RANDLETT, UTAH				XX	X								3	0.67
DOLORES RIVER NEAR CISCO,UT.					XX								2	0.50
JORDAN RIVER @ 5800 SO MURRAY UTAH				XX	XX	XX							5	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI				XX	XX	XX							3	1.00
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE				XX	XX	XX							5	1.00
SEVIER RIVER NEAR LYNNDYL, UTAH						XX							2	0.50
WEBER RIVER NR PLAIN CITY UTAH				XX	XX		XX						3	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH				XX	XX	XX							5	1.00
70300 RESIDUE														
**********														
REAR R NR CORINNE	X	X	X				XX	XX	XX		XX	X	11	0.82
COLORADO RIVER NEAR CISCO UTAH		X		X			X		XX		X	X	10	0.80
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB	X	X	X	X			0	X	XX	XX			18	0.72
COLORADO R ABOVE MILL CREEK NEAR MOAB UT	X	X	X	X			0	X	XX	XX	XX		19	0.74

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
COLORADO R AT LEES FERRY, AZ.	0	0	X	X	X	X	X	X	X	X		0	11	1.00
VIRGIN R. AT BLOOMINGTON,UT	XX		XX	0		XX	XX	XX	XX	XX			9	0.89
VIRGIN R AT LITTLEFIELD, AZ	XX	XX	XX	X	0	XX	XX	XX	XX	XX		XX	11	1.00
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	XX	XX	XX	XX	XX	XX	XX		XX	XX		10	1.00
SAN JUAN RIVER AT SHIPROCK, NM	0							0		0			12	0.25
SAN JUAN RIVER NEAR BLUFF, UTAH		X	X						X		X		10	0.50
GREEN RIVER NEAR GREENDALE, UTAH	0	0	0	0									11	0.36
GREEN RIVER AT GREEN RIVER, UTAH	X	0		X					X		X	X	10	0.70
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH	XX		XX	XX	XX		XX		XX		XX	XX	9	1.00
PRICE RIVER AT WOODSIDE, UTAH	XX		XX	XX	X		XX		XX			XX	9	1.00
WHITE RIVER AT MOUTH NEAR OURAY UTAH		X	0	X				0	0	0	X	0	11	0.73
HELL'S HOLE CAN AT MOUTH NR WATSON UT			0										1	1.00
DUCHESNE RIVER NEAR RANDLETT, UTAH	XX	X	X	X	X	X		XX	X	XX		XX	10	1.00
DOLORES RIVER NEAR CISCO,UT.							XX		XX		XX	XX	7	0.71
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX			16	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX	XX	XX	X		X	XX			XX	XX	XX	11	0.91
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	XX	XX	X	X	X	X	XX	XX	XX				15	0.93
SEVIER RIVER NEAR LYNNDYL, UTAH	XX		XX	XX		XX	XX	XX	XX	XX		XX	10	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX			16	1.00

70301 DISS SOL

****

BEAR R NR CORINNE	X	X	X	0	0		XX	XX	XX		XX	X	11	1.00
COLORADO RIVER NEAR CISCO UTAH		X		X			X		XX		X	X	10	0.80
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB			X				0		XX				6	0.67
COLORADO R ABOVE MILL CREEK NEAR MOAB UT			X				0		XX				6	0.67
COLORADO R AT LEES FERRY, AZ.	0	0	X	X	X	X	0	0	0	0		0	11	1.00
VIRGIN R. AT BLOOMINGTON,UT	XX		XX			XX	XX	XX	XX	XX			9	0.78
VIRGIN R AT LITTLEFIELD, AZ	XX	XX	XX	X		XX	XX	XX	XX	XX		XX	11	0.91
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	XX	XX	XX		XX	XX	XX		XX	XX		9	1.00
SAN JUAN RIVER AT SHIPROCK, NM	0	0	0					0		0			12	0.42
SAN JUAN RIVER NEAR BLUFF, UTAH		X	XX	0					X		X		10	0.60
MUDDY CR AT DELTA MINE NR HANKSVILLE, UT	XX	XX		XX	X	XX	XX						6	1.00
MUDDY CREEK AT MOUTH NR HANKSVILLE, UT.			XX	XX	XX	XX	XX						5	1.00
GREEN RIVER NEAR GREENDALE, UTAH	0	0	0										11	0.27
GREEN RIVER NEAR JENSEN, UTAH	0												12	0.08
GREEN RIVER AT GREEN RIVER, UTAH	0	X		X					X		X	X	10	0.70
SAN RAFAEL R AT SAN R BR CAMPGROUND NR C	XX	XX		XX		X	XX	XX	XX	XX	XX	XX	11	1.00
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH	XX		XX	XX	XX		XX		XX		XX	XX	10	1.00
FERRON CREEK BEL PARADISE RANCH NR CLAWS	XX	XX		XX	XX		XX	XX	XX	XX	XX	XX	12	0.92
PRICE RIVER AT WOODSIDE, UTAH	XX		XX	XX	X		XX		XX				8	1.00
GRASSY TRAIL CREEK AT SUNNYSIDE, UTAH	XX	XX	XX				X	XX	XX		XX	XX	11	0.73
WHITE R NR WATSON UT		0	X						0				7	0.43
WHITE RIVER AT MOUTH NEAR OURAY UTAH		X	X	X				0	0	0	X	0	13	0.69
RITTER CR AT MOUTH NR BONANZA UT	XX		XX	XX			XX			XX			5	1.00
HELL'S HOLE CAN AT MOUTH NR WATSON UT			X										1	1.00
DUCHESNE RIVER NEAR RANDLETT, UTAH	XX	X	X	X	X	X		XX	X	XX	XX	XX	11	1.00
HENRYS FORK NR MANILA, UT	XX	X	X	X	XX		XX	XX		XX			11	0.91
DOLORES RIVER NEAR CISCO,UT.		XX	XX				XX	XX	XX	XX	XX	XX	18	0.78
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	X	XX	XX	XX	XX	XX	XX			14	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX	XX	XX	X		X	XX			XX	XX	XX	11	0.91
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	XX	XX	X	X	X	X	XX	XX	XX				11	0.92
SEVIER RIVER NEAR LYNNDYL, UTAH	XX		XX	XX		XX	XX	XX	XX	XX		XX	10	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	X	XX	XX	XX	XX	XX	XX			14	1.00
00095 CNDUCTVY														
**********														
BEAR RIVER ABOVE RESERVOIR NEAR WOODRUFF	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	21	1.00
BEAR R AT BORDER WY	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	20	1.00
BEAR R NR CORINNE	XX	XX	XX	XX	XX	XX	XX	XX	XX		XX	XX	16	1.00
COLORADO RIVER NEAR CISCO UTAH		XX		XX	XX		XX		XX		XX	XX	10	1.00
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX			10	1.00
COLORADO R ABOVE MILL CREEK NEAR MOAB UT	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	21	1.00
COLORADO R AT LEES FERRY, AZ.	XX	XX	XX	XX	XX	XX		XX	XX		XX	XX	10	1.00
VIRGIN R. AT BLOOMINGTON,UT	XX		XX	XX	XX	XX	XX	XX	XX	XX			9	1.00
VIRGIN R AT LITTLEFIELD, AZ	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		XX	11	1.00
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	XX	XX	XX	XX	XX	XX	XX		XX	XX		10	1.00
SAN JUAN RIVER AT SHIPROCK, NM	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
SAN JUAN RIVER NEAR BLUFF, UTAH		XX	XX	XX	XX		XX		XX		XX	XX	10	1.00
DIRTY DEVIL R AB POISON SP WA NR	XX			XX	XX	XX	XX						5	1.00
MUDDY CR AT DELTA MINE NR HANKSVILLE, UT	XX	XX		XX	XX	XX	XX						6	1.00
MUDDY CREEK AT MOUTH NR HANKSVILLE, UT,			XX	XX	XX	XX	XX						5	1.00
GREEN RIVER NEAR GREENDALE, UTAH	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	11	1.00
GREEN RIVER NEAR JENSEN, UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
GREEN RIVER AT GREEN RIVER, UTAH	XX	XX		XX	XX		XX		XX		XX	XX	10	1.00
SAN RAFAEL R AT SAN R RR CAMPGROUND NR C	XX	XX		XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH	XX		XX	XX	XX		XX		XX		XX	XX	10	1.00
FERRON CREEK BEL PARADISE RANCH NR CLAWS	XX	XX		XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
HUNTINGTON CREEK NEAR HUNTINGTON, UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
COTTONWOOD CR,ABV STR,CANYON,NR ORANGEVI						XX	XX	XX	XX	XX	XX		6	1.00
COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
PRICE RIVER AT WOODSIDE, UTAH	XX		XX	XX	XX		XX		XX		XX	XX	10	1.00
GRASSY TRAIL CREEK AT SUNNYSIDE, UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
WHITE R NR WATSON UT		XX	XX	XX	XX	XX	XX		XX				7	1.00
WHITE RIVER AT MOUTH NEAR OURAY UTAH	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	13	1.00
BITTER CR AT MOUTH NR BONANZA UT	XX		XX	XX		XX	XX			XX			6	1.00
HELL'S HOLE CAN AT MOUTH NR WATSON UT			XX										1	1.00
DUCHESNE RIVER NEAR RANDLETT, UTAH	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	11	1.00
STRAWBERRY RIVER NEAR DUCHESNE,	XX	XX	XX	XX	XX	XX	XX	XX	XX				10	1.00
HENRYS FORK NR MANILA, UT	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX			12	1.00
MILL CR NR MOAB UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX				11	1.00
DOLORES RIVER NEAR CISCO,UT,		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	19	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		XX	18	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX	XX	XX	XX	XX	XX	XX			XX	XX	XX	11	1.00
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	XX	XX	XX	XX	XX	XX	XX	XX	XX				15	1.00
SEVIER RIVER BELOW PIUTE DAM NR MARYSVAL	XX	XX		XX	XX	XX	XX		XX	XX		XX	10	1.00
SEVIER RIVER NEAR LYNNDYL, UTAH	XX		XX	XX		XX	XX	XX	XX	XX		XX	10	1.00
WEBER RIV AT GATEWAY UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX			XX	12	1.00
WEBER RIVER NR PLAIN CITY UTAH	XX	XX	XX	XX	XX		XX	XX	XX	XX		XX	13	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		XX	18	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00070 TURB														
REAR R AT BORDER WY				XX									12	0.25
VIRGIN R. AT BLOOMINGTON,UT	XX		XX	XX									5	0.60
VIRGIN R AT LITTLEFIELD, AZ	XX	XX	XX	XX						XX			6	0.83
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	XX	XX	XX									4	1.00
00530 RESIDUE														
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB			XX	XX	XX		XX						8	0.63
COLORADO R ABOVE MILL CREEK NEAR MOAB UT			XX	XX	XX		XX						10	0.50
SAN JUAN RIVER AT SHIPROCK, NM	XX		XX	XX	XX	X	0	0	XX	XX			11	0.82
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH				XX	XX				X				10	0.50
PRICE RIVER AT WOODSIDE, UTAH				XX	XX		XX						8	0.50
WHITE RIVER AT MOUTH NEAR OURAY UTAH											X		2	0.50
DUCHESNE RIVER NEAR RANDLETT, UTAH		X	XX	XX									10	0.30
JORDAN RIVER @ 5800 SO MURRAY UTAH			X										17	0.12
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE				X									15	0.13
JORDAN RIVER @ 5800 SO MURRAY UTAH			X										17	0.12
70299 RES-SUSP														
WHITE RIVER AT MOUTH NEAR OURAY UTAH			XX										3	0.33
80154 SUSP SED														
REAR R AT BORDER WY				X									12	0.17
REAR R NR CORINNE	X		XX	X	X		XX	XX	XX				9	0.89
COLORADO RIVER NEAR CISCO UTAH		XX	XX	XX	XX	XX		XX					11	0.82
COLORADO R AT LEES FERRY, AZ.	X				X								17	0.24
VIRGIN R. AT BLOOMINGTON,UT	XX		XX			XX	X	XX	X	XX			7	1.00
VIRGIN R AT LITTLEFIELD, AZ	XX					XX	XX	0	0	XX			6	1.00
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	XX		XX	XX			XX		XX			6	1.00
SAN JUAN RIVER AT SHIPROCK, NM	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	19	1.00
SAN JUAN RIVER NEAR BLUFF, UTAH		XX	XX	XX	XX		XX	XX	XX				12	0.92
MUDDY CR AT DELTA MINE NR HANKSVILLE, UT				XX	XX	XX	X						4	1.00
MUDDY CREEK AT MOUTH NR HANKSVILLE, UT.			XX	XX	XX	XX	XX						5	1.00
GREEN RIVER NEAR JENSEN, UTAH			XX	XX		XX		XX					4	1.00
GREEN RIVER AT GREEN RIVER, UTAH	XX	XX	XX	XX	XX	XX	X	XX	X				13	0.92
SAN RAFAEL R AT SAN R RR CAMPGROUND NR C				XX	XX	XX	X	X					5	1.00
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH			XX	XX	XX		X		XX				8	0.88
FERRON CREEK BEL PARADISE RANCH NR CLAWS				0	X			XX					5	0.60
HUNTINGTON CREEK NEAR HUNTINGTON, UTAH				X	XX	X	X						9	0.44
COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH				XX	XX								5	0.40
PRICE RIVER AT WOODSIDE, UTAH			XX	XX	XX		XX		XX				8	0.88
WHITE R NR WATSON UT						XX							2	0.50
WHITE RIVER AT MOUTH NEAR OURAY UTAH			XX	XX	XX	XX	XX	XX	XX				23	0.91
HELL'S HOLE CAN AT MOUTH NR WATSON UT			XX										1	1.00
DUCHESNE RIVER NEAR RANDLETT, UTAH			XX	XX	X								6	0.50

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
DOLORES RIVER NEAR CISCO,UT.					XX		X						3	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI			0		X		XX						7	0.43
SEVIER RIVER NEAR LYNNDYL, UTAH			X	X		XX		X					8	0.63
00940 CHLORIDE														
**********														
BEAR R NR CORINNE							XX	XX	XX		XX		11	0.45
VIRGIN R. AT BLOOMINGTON,UT	0					X	XX	XX	XX	X			9	0.67
VIRGIN R AT LITTLEFIELD, AZ	X					X	X	X	X	X		X	11	0.64
MUDDY CR AT DELTA MINE NR HANKSVILLE, UT	XX	X											6	0.33
MUDDY CREEK AT MOUTH NR HANKSVILLE, UT.			XX	X	0		XX						5	0.80
BITTER CR AT MOUTH NR BONANZA UT	0						XX			0			5	0.60
DOLORES RIVER NEAR CISCO,UT.		XX	XX				X	XX	XX	XX	XX	XX	19	0.74
JORDAN RIVER @ 5800 SO MURRAY UTAH	X				0	0	0	X	X	X		X	17	0.59
SEVIER RIVER NEAR LYNNDYL, UTAH	X		XX	X		0	0	0	0	X		0	10	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH	X				0	0	0	X	X	X		X	17	0.59
00945 SULFATE														
**********														
COLORADO RIVER NEAR CISCO UTAH				0					X		X	0	10	0.50
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB				0					XX				8	0.38
COLORADO R ABOVE MILL CREEK NEAR MOAB UT		0		X					X		X		10	0.50
COLORADO R AT LEES FERRY, AZ.		0	0	0	0	0		0	0				11	0.64
VIRGIN R. AT BLOOMINGTON,UT	XX		X			XX	XX	XX	XX	XX			9	0.78
VIRGIN R AT LITTLEFIELD, AZ	XX	XX	X			XX	XX	XX	XX	XX		XX	11	0.82
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	XX	XX	XX	XX	XX	XX	XX		XX	XX		10	1.00
SAN JUAN RIVER AT SHIPROCK, NM								0		0			12	0.17
SAN JUAN RIVER NEAR BLUFF, UTAH		X	X						X		X		10	0.50
MUDDY CR AT DELTA MINE NR HANKSVILLE, UT	XX	XX		XX	X	XX	XX						6	1.00
MUDDY CREEK AT MOUTH NR HANKSVILLE, UT.			XX	XX	XX	XX	XX						5	1.00
GREEN RIVER NEAR GREENDALE, UTAH													11	0.0
GREEN RIVER AT GREEN RIVER, UTAH				X					0		0	0	10	0.40
SAN RAFAEL R AT SAN R NR CAMPGROUND NR C	XX	XX		XX		X	XX	XX	XX	XX	XX	XX	11	1.00
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH	XX		XX	XX	XX		XX		XX		XX	XX	9	1.00
FERRON CREEK BEL PARADISE RANCH NR CLAWS	XX	XX		XX	XX		XX	XX	XX	XX	XX	XX	12	0.92
PRICE RIVER AT WOODSIDE, UTAH	XX		XX	XX	X		XX		XX				8	1.00
GRASSY TRAIL CREEK AT SUNNYSIDE, UTAH	XX	XX	XX					X	XX	0	XX	XX	12	0.67
WHITE R NR WATSON UT			X										7	0.14
WHITE RIVER AT MOUTH NEAR OURAY UTAH				0									13	0.08
BITTER CR AT MOUTH NR BONANZA UT	XX		XX	XX			XX			XX			5	1.00
DUCHESNE RIVER NEAR RANDLETT, UTAH	XX	X	X		X	X		XX	X	XX	XX	XX	11	0.91
HENRYS FORK NR MANILA, UT	XX	X	X	X	XX	0	XX	XX		XX			10	1.00
DOLORES RIVER NEAR CISCO,UT.		X	XX					X	XX	XX	XX	XX	18	0.67
JORDAN RIVER @ 5800 SO MURRAY UTAH	X	0	0	0	X	X	X	X	X	X		X	17	0.94
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	X	0	0				X			X	X	X	11	0.73
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	X						0	X	X				15	0.47
SEVIER RIVER NEAR LYNNDYL, UTAH	X		XX	X		0	0	0		X			10	0.70
JORDAN RIVER @ 5800 SO MURRAY UTAH	X	0	0	0	X	X	X	X	X	X		X	17	0.94
00608 NH3+NH4-														
**********														

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
DOLORES RIVER NEAR CISCO,UT.											XX	XX	2	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI										X	XX	XX	4	1.00
01034 CHROMIUM														
**********														
SAN JUAN RIVER AT SHIPROCK, NM		X											4	0.25
01147 SELENIUM														
**********														
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA			0										1	1.00
71900 MERCURY														
**********														
BEAR R NR CORINNE				XX									5	0.20
COLORADO R AT LEES FERRY, AZ.								XX					3	0.33
VIRGIN R. AT BLOOMINGTON,UT									XX				2	0.50
VIRGIN R AT LITTLEFIELD, AZ									XX				2	0.50
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA			XX										2	0.50
SAN JUAN RIVER NEAR BLUFF, UTAH					0								4	0.25
PRICE RIVER AT WOODSIDE, UTAH									XX				1	1.00
WHITE RIVER AT MOUTH NEAR OURAY UTAH				XX						XX			4	0.50
DOLORES RIVER NEAR CISCO,UT.					XX								3	0.33
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI				XX			XX			XX	XX		5	0.80
SEVIER RIVER NEAR LYNNDYL, UTAH				XX									3	0.33
WEBER RIVER NR PLAIN CITY UTAH				XX									5	0.20
01042 COPPER														
**********														
SAN JUAN RIVER AT SHIPROCK, NM		XX			XX								4	0.50
WHITE RIVER AT MOUTH NEAR OURAY UTAH				0									4	0.25
WEBER RIVER NR PLAIN CITY UTAH				XX									5	0.20
01092 ZINC														
**********														
SAN JUAN RIVER AT SHIPROCK, NM		XX			X								4	0.50
WEBER RIVER NR PLAIN CITY UTAH				X									5	0.20

PROCESSING COMPLETE FOR REQUESTED PERIOD

Reproduced from best available copy.

Table 15. Water Quality Trend Table UTAH

Legend: Stations and Parameters where Significant Statistical Differences were Observed. I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Bear R abv Reservoir nr Woodruff			D *								
Bear R at Border, WY							D				I Pb,Zn
Bear R at Corinne		D					D			D	
Colorado R nr Cisco								I		I	D Pb Cd
Colorado R nr Moab		I		I *							
Colorado R at Lees Ferry, AZ	D *			D			D			I	
Virgin R at Bloomington											I Cu
Paria R nr Glen Canyon Reservoir				D			D *	D		D	
San Juan R nr Bluff											D Pb Cd
Muddy Cr nr Hanksville				I *			I *	I *			
Green R nr Greendale	D	I									D Pb Cd
Green R at Green River		D			D *						D Pb Hg
Huntington Cr nr Huntington											I Pb
Cottonwood Cr nr Orangeville							D				
Price R at Woodside										D	
Grassy Trail Cr at Sunnyside											I Pb
White R nr Ouray	D										D Cr
Bitter Cr nr Bonanza										I	
Jordan R at 1700 S, SLC											I Zn
Jordan R at Cudahy Lane, SLC				I *						I	
Sevier R nr Marysvale								I			
Sevier R nr Lynndyl				I *							D Zn

Table 16. Ranking of Critical Water Quality Stations by Pollutant Group

	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
Fecal Coliform			
1. Bitter Cr nr Kanda	1.00	9	100000+
2. Killpecker Cr at Rock Springs	0.88	6	100000+
3. Goose Cr blw Sheridan	1.00	11	62636
4. Hams Fork nr Diamondville	0.67	7	4375
5. Bighorn at Lucerne	0.33	3	3824
Phosphorus			
1. Killpecker Cr at Rock Springs	1.00	7	2.82
2. Bitter Cr nr Kanda	0.89	7	2.71
3. Salt Wells Cr nr Salt Wells	1.00	3	1.36
4. Goose Cr blw Sheridan	0.91	10	0.42
5. Whistle Cr nr Garland	1.00	2	1.29
6. Shoshone R nr Lovell	0.89	7	0.30
7. Bitter Cr nr Salt Wells	1.00	2	0.54
Dissolved Solids			
1. Salt Cr nr Sussex	1.00	11	4274
2. Beaver Cr nr Newcastle	1.00	11	3430
3. Bitter Cr nr Salt Wells	1.00	10	3671
4. Big Sandy R nr Eden	1.00	12	2721
5. Cheyenne R nr Riverview	1.00	10	3240
6. Casper Cr at Casper	1.00	10	3040
7. Little Powder R nr Weston	1.00	11	2743
8. Belle Fourche R nr Piney	1.00	11	2728
9. Powder R - Sussex to Arvada	1.00	12	1954
10. Blacks Fork nr Lyman	1.00	10	1992
Suspended Sediments			
1. Salt Wells Cr nr Salt Wells	1.00	6	11070
2. Blacks Fork nr Lyman	0.93	10	1094
3. Powder R at Sussex	1.00	10	1547

Table 16 (Continued). Ranking of Critical Water Quality Stations by Pollutant Group

Suspended Sediments	Exceed. Prob.	No. Mos. Exc'd	Avg. Conc. mg/l
4. Medicine Bow R nr Hanna	1.00	12	425
5. Belle Fourche R blw Moorcroft	1.00	11	408
6. Little Powder R nr Weston	1.00	10	421
7. Salt Cr nr Sussex	1.00	11	861
8. Nowood Cr nr Tensleep	0.92	9	352
9. Bitter Cr nr Bitter Cr	0.94	10	1194
10. Shoshone R nr Lovell	1.00	9	214

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00300 DO														
L POWDER R BF CORRAL C NR WESTON WY						0							7	0.14
L POWDER RIVER AB DRY C NR WESTON, WY							0						12	0.08
HAMS FORK NEAR GRANGER, WYO.								X					1	1.00
KILLPECKER CREEK AT ROCK SPRINGS WYO									XX				10	0.10
NORTH PLATTE RIVER ABOVE PATHFINDER RESE									X				10	0.10
NORTH PLATTE RIVER BELOW GLENDO RESERVOI							X			XX			11	0.18
31625 FEC COLI														
SOUTH FORK POWDER R. NR. KAYCEE, WYO.								XX					6	0.17
GOOSE CREEK BELOW SHERIDAN WYO	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
BIGHORN RIVER AT LUCERNE, WYO.						X			XX	XX			12	0.33
GREEN RIVER BELOW GREEN RIVER WYO													12	0.0
HAMS FORK NEAR DIAMONDVILLE WY	XX	XX		XX		XX		XX			XX	XX	12	0.67
SMITHS FORK NEAR LYMAN, WY										XX			12	0.08
BITTER CR BEL LITTLE BITTER CR NR KANDA		XX	XX	XX		XX		XX	XX	XX	XX	XX	11	1.00
KILLPECKER CREEK AT ROCK SPRINGS WYO			XX	XX		XX		X		XX		XX	8	0.88
NORTH PLATTE RIVER BL CASPER WYO	XX		XX										22	0.14
LARAMIE RIVER AT HOWELL, WY	X												12	0.08
31501 TOT COLI														
NORTH PLATTE RIVER BL CASPER WYO	XX	0	XX	X	0		X			X	XX		21	0.48
00600 TOTAL N														
CHEYENNE RIVER NR RIVERVIEW WY								XX					9	0.11
BITTER CR BEL LITTLE BITTER CR NR KANDA			X					X		X	XX		9	0.44
KILLPECKER CREEK AT ROCK SPRINGS WYO										0	XX	X	9	0.33
00665 PHOS-TOT														
CHEYENNE RIVER NR DULL CENTER WY													11	0.0
CHEYENNE RIVER NR RIVERVIEW WY								XX					9	0.11
BEAVER CREEK NEAR NEWCASTLE, WYO.		XX	0	X				XX					12	0.33
BELLE FOURCHE RIVER BELOW MOORCROFT, WYO	XX		0	X		X		XX				XX	11	0.55
BELLE FOURCHE RIVER AT DEVILS TOWER WYO				XX									12	0.08
POWDER RIVER NEAR KAYCEE, WYO.		X	X	XX				X		XX			10	0.50
POWDER RIVER AT SUSSEX, WYO.		X	XX		XX	XX	XX	XX	X	XX	X		13	0.69
POWDER R AT ARVADA WYO	X		XX	XX		XX	X	XX	XX	XX	XX		11	0.82
L POWDER R BF CORRAL C NR WESTON WY			X			XX							7	0.29
L POWDER R NR WESTON WY			XX										12	0.08
L POWDER RIVER AB DRY C NR WESTON, WY			X										12	0.08
CLEAR C BL ROCK C NR BUFFALO WY	X	X										0	11	0.27
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV						XX							13	0.08
SALT CREEK NEAR SUSSEX, WYO.			XX	XX				XX	0	X	0		11	0.55
SOUTH FORK POWDER R. NR. KAYCEE, WYO.			XX	XX		XX					X		6	0.67

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

Reproduced from best available copy.

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDANCE PROBABILITY
TONGUE RIVER AT MONARCH WYO			X										11	0.09
GOOSE CREEK BELOW SHERIDAN WYO	XX	XX	XX	0			XX	XX	XX	XX	XX	XX	11	0.91
BIGHORN R AT WORLAND WYO			XX	XX		X		X		X			13	0.58
BIGHORN R AT KANE WYO	X		XX	X		X		XX					11	0.45
SHOSHONE RIVER BELOW BUFFALO BILL RESERV								0				X	10	0.20
SHOSHONE RIVER AB DRY C NR CODY, WY							X						9	0.11
SHOSHONE RIVER NEAR LOVELL WYO	X		XX	XX		0	XX	X		XX			9	0.89
SAGE C AT SIDON CANAL NR BEAVER WYO			XX				XX	X					9	0.33
THISTLE CREEK NEAR GARLAND WYO			XX	XX		X	XX	XX					8	0.63
BITTER CREEK NEAR GARLAND WYO	XX	XX	XX	XX			XX	XX		0			9	0.78
SHELL C NR GREYBULL, WYO			XX			X		X					11	0.27
GREYBULL RIVER NEAR BASIN, WYO.				X		XX							12	0.17
HOWOOD R NR TENSLEEP, WY			XX		XX								11	0.18
PAINTROCK CREEK NEAR MOUTH BELOW HYATTVI			XX										11	0.09
HOWOOD R AT WANDERSON, WYO			XX	XX	XX								11	0.27
WIND RIVER NEAR DUBOIS, WYO.					X								12	0.08
WIND R AT RIVERTON, WY										X		XX	12	0.17
WIND RIVER AB BOYSEN RF NR SHOSHONI WY				X	XX	X	XX						12	0.42
FIVEMILE CREEK NEAR SHOSHONI, WYO.					XX		XX	X					12	0.25
LITTLE WIND R NR RIVERTON WYO		X	XX		XX							0	11	0.15
BEAVER CREEK NR ARAPAHOE WYO				XX	XX						XX		5	0.80
LITTLE WIND R ABOVE ARAPAHOE, WYO.						X							11	0.09
GREEN RIVER AT BIG ISLAND, NEAR GREEN RI			X										12	0.08
GREEN R. NR GREEN RIVER, WYO.			X										11	0.09
GREEN RIVER BELOW GREEN RIVER WYO			XX										11	0.09
LITTLE SNAKE RIVER NEAR RAGGS, W			XX	XX	XX		XX			XX			11	0.45
HAMS FORK NEAR DIAMONDVILLE WY	XX	XX						0	XX	XX	X	XX	12	0.58
HAMS FORK NEAR GRANGER, WYO.	0	XX	X	XX								0	12	0.42
MUDDY CREEK NEAR HAMPTON WYO			XX	XX		XX							10	0.10
SMITHS FORK NEAR LYMAN, WY										X			12	0.08
BITTER CR BEL LITTLE BITTER CR NR KANDA		XX	XX	XX		XX		XX		XX	XX		8	0.89
WILLPECKER CREEK AT ROCK SPRINGS WYO			XX	XX		XX		XX		XX	XX	XX	8	1.00
SALT WELLS C NR S BAXTER WY			XX	XX		XX				XX			11	0.45
SALT WELLS CREEK NEAR SALT WELLS WY			XX	X		XX							4	1.00
BITTER C AB SALT WELLS C NR SALT WELLS W			XX	X		XX		XX					8	0.84
BITTER CREEK NEAR BITTER CREEK, WYO		XX	XX	XX	XX		XX	X	X	XX	XX		11	0.82
BIG SANDY RIVER BELOW EDEN WYO				XX									11	0.09
BIG SANDY R AT GASSON BRIDGE, NR EDEN,			X	XX									12	0.25
LITTLE SANDY CREEK ABOVE EDEN, WYO.				X	XX	X		X					12	0.50
N PLATTE R AB SEMINOE RES NR SINCLAIR WY				XX				XX					12	0.17
NORTH PLATTE R AT ALCOVA WYO										X			12	0.08
NORTH PLATTE RIVER BL CASPER WYO													24	0.04
N PLATTE R NR GLENROCK WYO		X			X			XX		X			11	0.36
NORTH PLATTE R. AT ORIN, WYO.								X			0		12	0.23
NORTH PLATTE R BL GUERNSEY RF, WYO										0			11	0.09
LARAMIE RIVER AT HOWELL, WY	XX	XX	XX	XX	0		XX		XX	XX	XX	XX	12	0.83
LARAMIE RIVER AT TWO RIVERS, WYO.	X	XX	XX	XX	X		XX	XX	XX	XX	XX	X	12	0.92
LARAMIE RIVER NR FT LARAMIE WYO							0						12	0.08
LITTLE LARAMIE RIVER AT TWO RIVERS, WYO		X											12	0.08
CASPER C AT CASPER WYO						0							1	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

WYOMING

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
SWEETWATER RIVER NEAR ALCOVA, WYO.				X				XX					11	0.18
MEDICINE BOW R AB SIMINOE RES. NR HANNA,				XX	XX	0		XX					12	0.33
E. MEDICINE BOW R NR MEDICINE BOW WYO				XX									11	0.09
SAGE CREEK NEAR SARATOGA, WYO			XX	XX	XX	X							8	0.50
SALT RIVER AB RESERVOIR NR ETNA WY				XX								XX	12	0.25
00650 T PO4														
**********														
CHEYENNE RIVER NR DULL CENTER WY						0							3	0.33
BELLE FOURCHE RIVER BELOW MOORCROFT, WYO				X		X							2	1.00
POWDER RIVER AT SUSSEX, WYO.					XX	XX		XX					4	0.75
E. POWDER R AB CORRAL C NR WESTON WY						XX							3	0.33
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV						XX							3	0.33
SHOSHONE RIVER NEAR LOVELL WYO				XX		0							2	1.00
WHISTLE CREEK NEAR GARLAND WYO				XX		X							2	1.00
BITTER CREEK NEAR GARLAND WYO				XX		0							2	1.00
WIND RIVER AB BOYSEN RF NR SHOSHONI WY					XX	X	XX						3	1.00
MUDDY CREEK NEAR HANPION WYO				XX		XX							3	0.67
BITTER CR BEL LITTLE BITTER CR NR KANDA				XX		XX							2	1.00
KILLDECKER CREEK AT ROCK SPRINGS WYO				XX		XX							3	1.00
SALT WELLS C NR S BAXTER WY				XX		XX							3	1.00
SALT WELLS CREEK NEAR SALT WELLS WY				X		XX							3	1.00
BITTER C AB SALT WELLS C NR SALT WELLS W				X		XX							2	1.00
BITTER CREEK NEAR BITTER CREEK, WYO				XX	XX								3	0.67
LITTLE SANDY CREEK ABOVE EDEN, WYO.				X	XX	X							3	1.00
LARAMIE RIVER AT HOWELL, WY				XX	0								3	0.67
CASPER C AT CASPER WYO						0							1	1.00
70300 RESIDUE														
**********														
CHEYENNE RIVER NR DULL CENTER WY										XX	XX	XX	3	1.00
POWDER RIVER AT SUSSEX, WYO.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00
E. POWDER R AB CORRAL C NR WESTON WY			XX	XX	XX	XX	XX				XX	XX	7	1.00
E. POWDER R NR WESTON WY	XX	XX		XX	XX	XX	XX	XX	XX	XX	XX	XX	12	0.92
E. POWDER RIVER AB DRY C NR WESTON, WY										XX	XX	XX	3	1.00
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV	XX	XX	XX	XX	X	X	XX	XX	XX	XX	XX	XX	13	1.00
NORTH PLATTE RIVER BL CASPER WYO			0	0	X								2?	0.33
70301 DISS SOL														
**********														
CHEYENNE RIVER NR DULL CENTER WY			XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	11	1.00
CHEYENNE RIVER NR RIVERVIEW WY			XX	XX	XX	XX		X	XX	XX	XX	XX	9	1.00
BEAVER CREEK NEAR NEWCASTLE, WYO.	XX	XX	XX	XX	XX	XX		X	XX	XX	XX	XX	11	1.00
BELLE FOURCHE R BL RATTLESNAKE C NR PINE		XX	XX	XX		XX	XX					XX	6	1.00
BELLE FOURCHE R AB DRY C NR PINEY WY	XX	XX	0	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
BELLE FOURCHE RIVER BELOW MOORCROFT, WYO	XX	XX	0	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
BELLE FOURCHE RIVER AT DEVILS TOWER WYO	XX	XX	XX	XX	XX	X	X	X	XX	XX	XX	XX	12	1.00
POWDER RIVER NEAR KAYCEE, WYO.	X	X	XX	X		0	XX	XX	XX	XX	X		10	1.00
POWDER RIVER AT SUSSEX, WYO.	XX	XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	12	1.00
POWDER R AT ARVADA WYO	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
L POWDER R BF CORRAL C NR WESTON WY			XX	XX	XX	XX	XX				XX	XX	7	1.00
L POWDER R NR WESTON WY	XX	XX		XX	XX	XX	XX	XX	XX	XX	XX	XX	12	0.92
L POWDER RIVER AB DRY C NR WESTON, WY	XX	XX	0	XX		XX	XX	XX	XX	XX	XX	XX	12	1.00
CLEAR C BL ROCK C NR BUFFALO WY	0	0	X							0	0	X	11	0.55
CLEAR CREEK AT UCROSS WY	X		XX	XX			X		X	X	X	X	10	0.80
CLEAR CREEK NEAR ARVADA WYO	XX	XX	X	XX		X	XX	X	X	X	XX	XX	11	1.00
PINEY CREEK AT UCROSS WYO	X	X		0							X	X	11	0.45
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV	XX	XX	XX	XX	X	X	XX	XX	XX	XX	XX	XX	13	1.00
SALT CREEK NEAR SUSSEX, WYO.	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
SOUTH FORK POWDER R. NR. KAYCEE, WYO.	XX		XX	XX		XX		XX			XX	XX	7	1.00
GOOSE CREEK BELOW SHERIDAN WYO							0						11	0.09
BIGHORN RIVER AT LUCERNE, WYO.					X	0		X		0		0	12	0.58
BIGHORN R AT WORLAND WYO	0		X	X	X	X		X	X	X		X	12	1.00
BIGHORN R AT KANE WYO	X	X	X	X			X	X		X		X	11	0.91
SHOSHONE RIVER BELOW BUFFALO BILL RESERV												X	10	0.10
SHOSHONE RIVER AB DRY C NR CODY, WY			0									0	10	0.30
SHOSHONE RIVER NEAR LOVELL WYO	X	X	X				0			X		X	10	0.70
SAGE C AT SIDON CANAL NR BEAVER WYO	XX	XX	XX	XX		XX	XX	X		XX		XX	10	1.00
WHISTLE CREEK NEAR GARLAND WYO	XX		X	XX				0		X		XX	8	0.78
BITTER CREEK NEAR GARLAND WYO		XX	XX	XX			0	X		X		XX	8	0.89
SHELL C NR GREYBULL, WYO	0	0	XX	X			XX	XX	XX	XX		X	11	0.91
GREYBULL RIVER NEAR BASIN, WYO.		0	0	X	X		XX	XX	XX	X		X	12	0.83
NOWOOD R NR TENSLEEP, WY	0		X	X		X	X	X	X	X		0	11	0.91
PAINTROCK CREEK NEAR MOUTH BELOW HYATTVI	0		X	0				X	X	X		0	11	0.73
NOWOOD R AT HANDERSON, WYO	0		X	X				XX	X	X		X	10	0.70
WIND RIVER AB BOYSEN RF NR SHOSHONI WY	X			0									12	0.17
WIND R BL BOYSEN RES WYO											XX		12	0.08
FIVEMILE CREEK NEAR SHOSHONI, WYO.	XX	XX	XX	XX	X		0	X		XX	XX	XX	12	1.00
LITTLE WIND R NR RIVERTON WYO	X	X	XX							X	0	X	11	0.64
BEAVER CREEK NR ARAPAHOE WYO				XX							XX	XX	5	0.60
LITTLE WIND R ABOVE ARAPAHOE, WYO.	X	0						X		X			8	0.56
GREEN RIVER AT BIG ISLAND, NEAR GREEN RI									0				12	0.08
GREEN R. NR GREEN RIVER, WYO.									X				12	0.08
GREEN RIVER BELOW GREEN RIVER WYO		0	0						X		0		12	0.33
HENRYS FORK NR MANTLA, UT	XX	X	X	X	XX		XX	XX		XX			11	0.91
BLACKS FK NR LYMAN WYO	XX	XX	XX	XX		XX		XX	XX	XX	XX	XX	12	1.00
BLACKS FORK RIVER NEAR LITTLE AMERICA WY	XX	XX	XX			X		XX	X	XX	XX	XX	12	0.83
HANS FORK NEAR GRANGER, WYO.	0									0			12	0.17
MUDDY CREEK NEAR HAMPTON WYO		XX	XX	X		XX		XX	XX	XX		XX	10	1.00
SMITHS FORK NEAR LYMAN, WY	X	0				X		XX	XX	XX	X	0	12	0.75
BITTER CR BEL LITTLE BITTER CR NR KANDA		XX	XX	XX		XX		XX	XX	XX	XX		11	1.00
KILLPECKER CREEK AT ROCK SPRINGS WYO			XX	XX		XX		XX	XX	XX	XX	XX	10	1.00
SALT WELLS C NR S BAXTER WY		XX	X	0				X	XX	X		XX	11	0.91
SALT WELLS CREEK NEAR SALT WELLS WY				XX		XX							3	1.00
BITTER C AB SALT WELLS C NR SALT WELLS W		XX	XX	XX		XX		X	XX	XX	XX	XX	9	1.00
BITTER CREEK NEAR BITTER CREEK, WYO		XX		X	XX	XX	XX	XX	XX	XX	XX	XX	11	0.91
BIG SANDY RIVER BELOW EDEN WYO		XX		XX	XX	XX		XX	XX	XX	XX	XX	11	1.00
BIG SANDY R AT GASSON BRIDGE, NR EDEN,		XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	12	1.00
NORTH PLATTE RIVER BL CASPER WYO				X									11	0.09
N PLATTE R NR GLENROCK WYO				0	X								11	0.18

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
NORTH PLATTE R. AT ORIN, WYO.			0	X	X								13	0.23
NORTH PLATTE RIVER BELOW GLENDO RESERVOI	0		0	0						0			11	0.45
NORTH PLATTE R BL GUERNSEY RF, WYO		0	0	0	0								11	0.36
LARAMIE RIVER AT HOWELL, WY							X	X	XX	0			12	0.33
LARAMIE RIVER AT TWO RIVERS, WYO.							X	X	XX	X			12	0.33
LARAMIE RIVER NR FT LARAMIE WYO	0						0	0	0	0	0	0	12	0.58
MEDICINE BOW R AB SIMINOE RES. NR HANNA,	X	XX	X	X			XX	X	XX	XX	XX	XX	12	0.83
L MEDICINE BOW R NR MEDICINE BOW WYO		X	0			X	X	XX	X	X	X	XX	11	0.82
SAGE CREEK NEAR SARATOGA, WYO			XX	0		X	X	XX	XX	XX			8	0.88
00095 CNDUCTVY														
**********														
CHEYENNE RIVER NR DULL CENTER WY			XX	XX	XX	XX	XX	X	XX	XX	XX	XX	11	1.00
CHEYENNE RIVER NR RIVERVIEW WY			X	XX	XX	XX	XX	0	XX	XX	XX	XX	10	1.00
BELLE FOURCHE R BL RATTLESNAKE C NR PINE		XX	XX	XX		XX	XX					XX	6	1.00
BELLE FOURCHE R AB DRY C NR PINEY WY	XX	XX		XX		XX	XX	XX	XX	XX	XX	XX	11	0.91
BELLE FOURCHE RIVER BELOW MOORCROFT, WYO	XX	XX	0	XX		XX	XX	X	XX	XX	XX	XX	11	1.00
BELLE FOURCHE RIVER AT DEVILS TOWER WYO	XX	XX	XX	X	XX	X	X	X	X	XX	XX	XX	12	1.00
POWDER RIVER NEAR KAYCEE, WYO.	X	X	X	X		0	XX	X	XX	X	X	X	11	1.00
POWDER RIVER AT SUSSEX, WYO.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	14	1.00
POWDER R AT ARVADA WYO	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
L POWDER R BF CORRAL C NR WESTON WY			XX	XX	XX	XX	XX				XX	XX	7	1.00
L POWDER R NR WESTON WY	XX	XX		XX	XX	XX	XX	X	XX	XX	XX	XX	12	0.92
L POWDER RIVER AB DRY C NR WESTON, WY	XX	XX		XX		XX	XX	XX	XX	XX	XX	XX	12	0.92
CLEAR C BL ROCK C NR BUFFALO WY		0	X									0	11	0.27
CLEAR CREEK AT UCROSS WY	X		X	X			X		0	X	X	X	10	0.80
CLEAR CREEK NEAR ARVADA WYO	XX	XX	X	XX		X	X	X	X	X	X	XX	11	1.00
PINEY CREEK AT UCROSS WYO	0	X		0							X	X	11	0.45
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV	XX	XX	X	X	X	0	XX	XX	XX	X	X	XX	13	1.00
SALT CREEK NEAR SUSSEX, WYO.	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
SOUTH FORK POWDER R. NR. KAYCEE, WYO.	XX		XX	XX		XX		XX			XX	XX	7	1.00
GOOSE CREEK BELOW SHERIDAN WYO				0									11	0.09
BIGHORN RIVER AT LUCERNE, WYO.					X	X		X		0			12	0.42
BIGHORN R AT KANE WYO		X	X	X			X	X		X		X	11	0.82
SHOSHONE RIVER BELOW BUFFALO BILL RESERV												X	10	0.10
SHOSHONE RIVER AB DRY C NR CODY, WY												0	10	0.10
SHOSHONE R NR GARLAND WYO		X											9	0.11
SHOSHONE RIVER NEAR LOVELL WYO		X	0									X	10	0.40
SAGE C AT SIDON CANAL NR BEAVER WYO	XX	XX	XX	XX		XX	XX	X		XX		XX	10	1.00
WHISTLE CREEK NEAR GARLAND WYO	XX		X	XX						X		XX	9	0.56
BITTER CREEK NEAR GARLAND WYO	X	XX	XX	XX					0	X		XX	10	0.80
SHELL C NR GREYBULL, WYO	0		X	X			XX	X	XX	X		X	11	0.82
WIND R BL BOYSEN RES WYO											0	0	11	0.18
GREEN RIVER BELOW GREEN RIVER WYO		0							0				12	0.17
HENRYS FORK NR MANILA, UT	X	X	X	X	X	0	X	XX	X	XX			12	1.00
BLACKS FK NR LYMAN WYO	XX	XX	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	26	1.00
BLACKS FORK RIVER NEAR LITTLE AMERICA WY	XX	XX	X	X		X	X	XX	X	XX	XX	XX	25	0.96
HAMS FORK NEAR GRANGER, WYO.	0												12	0.08
MUDDY CREEK NEAR HAMPTON WYO		XX	XX	X	X	XX	XX	XX	XX	XX	XX	XX	21	1.00
SMITHS FORK NEAR LYMAN, WY	X	0	0	0		X		XX	XX	XX	X		12	0.83

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
BITTER CR BEL LITTLE BITTER CR NR KANDA		XX	XX	XX		XX		XX	XX	XX	XX	XX	11	1.00
KILLPECKER CREEK AT ROCK SPRINGS WYO			XX	XX		XX		XX	XX	XX	XX	XX	10	1.00
SALT WELLS C NR S BAXTER WY		X	X	X			0	X	X	X	X	XX	45	0.78
SALT WELLS CREEK NEAR SALT WELLS WY			XX	XX	XX	XX		XX		X			17	1.00
BITTER C AB SALT WELLS C NR SALT WELLS W		XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	23	1.00
BITTER CREEK NEAR BITTER CREEK, WYO		X		X	XX	XX	XX	0	XX	XX	XX	XX	28	0.86
BIG SANDY RIVER BELOW EDEN WYO	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	21	1.00
BIG SANDY R AT GASSON BRIDGE, NR EDEN,	XX		XX	XX	XX	XX		XX	XX	XX	XX	XX	11	1.00
NORTH PLATTE R AT CASPER WYO			0	0	0								26	0.15
NORTH PLATTE RIVER BL CASPER WYO				0	0								24	0.08
NORTH PLATTE R. AT ORIN, WYO.			0		0								13	0.15
NORTH PLATTE RIVER BELOW GLENDO RESERVOI	0		0										11	0.18
LARAMIE RIVER AT HOWELL, WY							X	0	XX	0			12	0.33
LARAMIE RIVER AT TWO RIVERS, WYO.							X	0	XX	0			12	0.33
LARAMIE RIVER NR FT LARAMIE WYO	0											0	12	0.25
CASPER C AT CASPER WYO	XX	XX	XX	XX	XX	XX	XX	XX	XX			XX	27	1.00
BATES C NR ALCOVA WYO	X	X	X	0		XX	XX	XX	XX	XX	XX	X	11	1.00
00070 TURB														
**********														
CHEYENNE RIVER NR DULL CENTER WY			XX	XX									9	1.00
CHEYENNE RIVER NR RIVERVIEW WY			XX				X	XX		XX			10	0.40
BELLE FOURCHE R AB DRY C NR PINEY WY			XX	XX									11	0.18
BELLE FOURCHE RIVER BELOW MOORCROFT, WYO			XX	X									4	0.50
BELLE FOURCHE RIVER AT DEVILS TOWER WYO				XX									12	0.08
POWDER RIVER NEAR KAYCEE, WYO.		X	XX	XX		X		X		XX			11	0.55
POWDER R AT ARVADA WYO	X	X	XX	XX		XX	X	XX	XX	XX	XX	XX	11	1.00
L POWDER RIVER AB DRY C NR WESTON, WY			XX										10	0.10
SOUTH FORK POWDER R. NR. KAYCEE, WYO.			XX	XX		XX		XX			XX	XX	9	0.86
TONGUE RIVER AT MONARCH WYO			XX										5	0.20
GOOSE CREEK BELOW SHERIDAN WYO			X			X							11	0.18
BIGHORN R AT KANE WYO	X		XX	XX		XX	X	XX					10	0.60
SHOSHONE RIVER AB DRY C NR CODY, WY			X	X									10	0.20
SHOSHONE RIVER NEAR LOVELL WYO			XX	XX		X	X			XX		XX	9	0.78
WIND RIVER AB BOYSEN RF NR SHOSHONI WY				XX	XX	XX				XX			10	0.40
GREEN R NR LABARGE WYO					X								24	0.04
GREEN R. NR GREEN RIVER, WYO.			XX	0									27	0.14
GREEN RIVER BELOW GREEN RIVER WYO			XX										13	0.08
BLACKS FK NR LYMAN WYO			XX	XX				XX					27	0.22
BLACKS FORK RIVER NEAR LITTLE AMERICA WY			XX	XX	XX	XX		XX		XX			25	0.40
HAMS FORK NEAR DIAMONDVILLE WY													13	0.0
HAMS FORK NEAR GRANGER, WYO.			X	XX									11	0.18
MUDDY CREEK NEAR HAMPTON WYO			XX	XX	XX	X		XX					15	0.47
SMITHS FORK NEAR LYMAN, WY			XX					0		XX		X	11	0.36
BITTER CR BEL LITTLE BITTER CR NR KANDA			XX	X		XX							11	0.27
KILLPECKER CREEK AT ROCK SPRINGS WYO			XX							X			9	0.33
SALT WELLS C NR S BAXTER WY			XX	XX	XX	XX	XX	XX		XX	XX		40	0.57
SALT WELLS CREEK NEAR SALT WELLS WY			XX	XX	XX	XX		XX		XX			15	1.00
BITTER C AB SALT WELLS C NR SALT WELLS W			XX	XX	XX			XX		X	XX		18	0.83
BITTER CREEK NEAR BITTER CREEK, WYO		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	19	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
BIG SANDY CREEK NEAR FARSON, WYOMING				XX	XX	XX		XX					12	0.50
BIG SANDY RIVER BELOW EDEN WYO				XX	X								21	0.19
LITTLE SANDY CREEK ABOVE EDEN, WYO.				XX	X	XX		XX					16	0.31
N PLATTE R AB SEMINOE RES NR SINCLAIR WY				X				XX					12	0.17
NORTH PLATTE R AT ALCOVA WYO										X			11	0.09
NORTH PLATTE RIVER BL CASPER WYO				X									9	0.11
NORTH PLATTE R. AT ORIN, WYO.						X		X					15	0.20
CASPER C AT CASPER WYO													26	0.04
BATES C NR ALCOVA WYO				XX				XX					11	0.18
SWEETWATER RIVER NEAR ALCOVA, WYO.				XX				X					11	0.18
SALT RIVER AB RESERVOIR NR ETNA WY				X									12	0.08
00530 RESIDUE														
**********														
NORTH PLATTE RIVER BL CASPER WYO										X			5	0.40
70299 RES-SUSP														
**********														
CLEAR CREEK NEAR ARVADA WYO								XX					7	0.14
GOOSE CREEK BELOW SHERIDAN WYO			XX			XX							7	0.29
BIG SANDY RIVER BELOW EDEN WYO				XX									4	0.25
NORTH PLATTE RIVER BL CASPER WYO			X	XX	XX	X	X	X					18	0.78
80154 SUSP SED														
**********														
CHEYENNE RIVER NR BULL CENTER WY					X	XX	X	XX				X	9	0.67
BELLE FOURCHE R BL RATTLESNAKE C NR PINE	XX	O		XX	XX								6	0.83
BELLE FOURCHE R AB DRY C NR PINEY WY		X		XX	X								7	0.71
BELLE FOURCHE RIVER BELOW MOORCROFT, WYO	XX	XX		XX	XX	XX	XX	XX	XX	X	X	XX	12	1.00
POWDER RIVER AT SUSSEX, WYO.	X	XX	XX	XX	XX	XX	XX	XX	XX			XX	11	1.00
POWDER R AT ARVADA WYO	XX												1	1.00
L POWDER R BF CORRAL C NR WESTON WY				XX								X	7	0.29
L POWDER R NR WESTON WY	XX	XX	XX	XX	XX	XX	XX	XX	XX			XX	12	1.00
L POWDER RIVER AB DRY C NR WESTON, WY	XX	XX	XX	X	XX	XX	XX	XX	X			XX	11	0.91
CLEAR C BL ROCK C NR BUFFALO WY					XX	XX	X	O					15	0.27
CLEAR CREEK AT UCROSS WY						O	XX						12	0.17
CLEAR CREEK NEAR ARVADA WYO	XX		XX		X	X	XX	XX					12	0.58
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV		XX	XX	XX	XX	XX	XX	XX	X			X	12	0.83
SALT CREEK NEAR SUSSEX, WYO.	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	X	11	1.00
GOOSE CREEK BELOW SHERIDAN WYO			XX	X	XX	XX			X	O			13	0.46
BIGHORN R AT KANE WYO.					XX		XX		XX	X			4	1.00
SHOSHONE RIVER NEAR LOVELL WYO			XX	XX	XX	XX	XX	XX	X	XX		XX	11	1.00
NOWOOD R NR TENSLEEP, WY	XX		XX	XX	XX	XX	X	O		XX		X	12	0.92
FIVEMILE CREEK NEAR SHOSHONI, WYO.	XX	XX	XX	XX	XX		XX	XX		XX		XX	12	0.92
GREEN R NR LABARGE WYO	XX			XX	XX								13	0.38
GREEN RIVER AT BIG ISLAND, NEAR GREEN RI	X												1	1.00
GREEN R. NR GREEN RIVER, WYO.	X		XX	XX				X					16	0.31
BLACKS FK NR LYMAN WYO	X	X	XX	XX	XX	XX	X	XX	O		XX		15	0.93
BLACKS FORK RIVER NEAR LITTLE AMERICA WY			XX	XX	XX	XX		XX		X			13	0.46
HAMS FORK NEAR GRANGER, WYO.	XX	XX	XX	XX		XX		X		X		X	12	0.75

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
MUDDY CREEK NEAR HAMPTON WYO			XX	XX	XX	XX		XX				XX	12	0.58
SMITHS FORK NEAR LYMAN, WY	XX												1	1.00
SALT WELLS C NR S BAXTER WY			XX	XX	XX	XX	XX	X		X	XX		16	0.58
SALT WELLS CREEK NEAR SALT WELLS WY			XX	XX	XX	XX		XX		XX			13	1.00
BITTER C AB SALT WELLS C NR SALT WELLS W			XX	XX	XX			XX			XX		15	0.80
BITTER CREEK NEAR BITTER CREEK, WYO			X	XX	XX	X	0	XX	X	X	XX	XX	17	0.94
BIG SANDY CREEK NEAR FARSON, WYOMING				XX	XX	XX	XX	XX	X				12	0.75
BIG SANDY RIVER BELOW EDEN WYO	XX	XX	XX	XX	XX	XX	0	XX	XX		X	XX	14	0.86
BIG SANDY R AT CASSON BRIDGE, NR EDEN,	XX												1	1.00
LITTLE SANDY CREEK ABOVE EDEN, WYO.				XX	XX	XX	XX	XX	XX			.	16	0.44
NORTH PLATTE R AT CASPER WYO,					XX	XX	XX	X	X			X	7	0.86
NORTH PLATTE R. AT ORIN, WYO.	X	XX	XX	X	XX					XX	X	XX	10	1.00
NORTH PLATTE R BL GUERNSEY RF, WYO					X								1	1.00
LARAMIE RIVER NR FT LARAMIE WYO		X		XX	XX	XX	XX		0	XX		XX	10	0.80
SWEETWATER RIVER NEAR ALCOVA, WYO.	X					XX		XX			XX		10	0.40
MEDICINE BOW R AB SIMMOF RES, NR HANNA,	XX	XX	XX	XX	XX	XX	XX	XX	X	XX	XX	XX	13	1.00
L MEDICINE BOW R NR MEDICINE BOW WYO		X	XX	XX	XX	XX			XX	X	XX	X	12	0.83
SAGE CREEK NEAR SARATOGA, WYO			XX	XX	XX	XX				XX			8	0.63
CACHE CREEK NEAR JACKSON, WO.						XX							11	0.09

00940 CHLORIDE

BEAVER CREEK NEAR NEWCASTLE, WYO.	XX	XX	XX		XX	XX	XX		XX	XX	XX	XX	12	0.83
POWDER RIVER AT SUSSEX, WYO.	X					X	XX	XX	XX	X	0	0	13	0.62
POWDER R AT ARVADA WYO	X	0					X	XX	X	X	X	X	11	0.73
SALT CREEK NEAR SUSSEX, WYO.	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
BITTER CR BEL LITTLE BITTER CR NR KANDA		XX	0	0		X		X	X	X	XX		11	0.91
KILLDEER CREEK AT ROCK SPRINGS WYO			XX	XX		XX		XX	X	XX		XX	10	0.90
SALT WELLS CREEK NEAR SALT WELLS WY			0										4	0.25
BITTER C AB SALT WELLS C NR SALT WELLS W						XX			XX	X	XX	XX	9	0.56

00945 SULFATE

CHEYENNE RIVER NR DULL CENTER WY			XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	11	1.00
CHEYENNE RIVER NR RIVERVIEW WY			XX	XX	XX	XX		X	XX	XX	XX	XX	9	1.00
BEAVER CREEK NEAR NEWCASTLE, WYO.	XX	XX	XX	XX	XX	XX	XX	X	XX	XX	XX	XX	12	1.00
BELLE FOURCHE R BL RATTLESNAKE C NR PINE		XX	XX	XX		XX	XX					XX	6	1.00
BELLE FOURCHE R AB DRY C NR PINEY WY	XX	XX	X	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
BELLE FOURCHE RIVER BELOW MOORCROFT, WYO	XX	XX	X	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
BELLE FOURCHE RIVER AT DEVILS TOWER WYO	XX	XX	XX	XX	XX	X	X	X	XX	XX	XX	XX	12	1.00
POWDER RIVER NEAR KAYCEE, WYO.	X	X	XX	X			XX	XX	XX	XX	X		10	0.90
POWDER RIVER AT SUSSEX, WYO.	X	XX	XX	XX	X	XX	X	XX	XX	XX	XX	XX	13	1.00
POWDER R AT ARVADA WYO	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
L POWDER R BF CORRAL C NR WESTON WY			XX	XX	XX	XX	XX				XX	XX	7	1.00
L POWDER R NR WESTON WY	XX	XX		XX	XX	XX	XX	XX	XX	XX	XX	XX	12	0.92
L POWDER RIVER AB DRY C NR WESTON, WY	XX	XX	X	XX		XX	XX	XX	XX	XX	XX	XX	12	1.00
CLEAR C BL ROCK C NR BUFFALO WY		0	X								0	X	11	0.36
CLEAR CREEK AT UCROSS WY	X		XX	XX			X		X	X	X	X	10	0.80
CLEAR CREEK NEAR ARVADA WYO	XX	XX	XX	XX		X	XX	X	X	XX	XX	XX	11	1.00
PINEY CREEK AT UCROSS WYO		0									X	X	11	0.27

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

WYOMING

TABLE 7. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
CRAZY WOMAN CREEK AT UPPER STA, NEAR ARV	XX	XX	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	13	1.00
SALT CREEK NEAR SUSSEX, WYO.	XX	XX	XX	XX		XX	XX	XX	XX	XX	XX	XX	11	1.00
SOUTH FORK POWDER R. NR. KAYCEE, WYO.	XX		XX	XX		XX		XX			XX	XX	7	1.00
BIGHORN RIVER AT LUCERNE, WYO.					X	O		X					12	0.42
BIGHORN R AT WORLAND WYO			X	X	X	X		X	O	X		X	12	0.92
BIGHORN R AT KANE WYO	X	X	XX	X			X	X		X		X	11	0.91
SHOSHONE RIVER BELOW BUFFALO BILL RESERV												X	10	0.10
SHOSHONE RIVER NEAR LOVELL WYO	X	X	O							X		X	10	0.50
SAGE C AT SIDOW CANAL NR BEAVER WYO	XX	XX	XX	XX		XX	XX	XX		XX		XX	10	1.00
WHISTLE CREEK NEAR GARLAND WYO	XX		XX	XX						X		XX	9	0.56
BITTER CREEK NEAR GARLAND WYO		XX	XX	XX						X		XX	9	0.56
SHELL C NR GREYBULL, WYO	O		XX	X			XX	XX	XX	XX		X	11	0.82
GREYBULL RIVER NEAR BASIN, WYO.				X	X		XX	X	XX	X		O	12	0.67
NOWOOD R NR TENSLEEP, WY			X	X		X	X	XX	X	X		O	11	0.82
PAINTROCK CREEK NEAR MOUTH BELOW HYATTVI	O		X	O				X	X	X			11	0.64
NOWOOD R AT HANDERSON, WYO	O		X	X				XX	X	X		X	11	0.73
FIVEMILE CREEK NEAR SHOSHONI, WYO.	XX	XX	XX	XX	X		O	X		XX	XX	XX	12	1.00
LITTLE WIND R NR RIVERTON WYO	O	O	XX							X		X	11	0.55
BEAVER CREEK NR ARAPAHOE WYO				XX							XX	XX	5	0.60
LITTLE WIND R ABOVE ARAPAHOE, WYO.	O	O		XX				X		X			11	0.45
GREEN RIVER AT BIG ISLAND, NEAR GREEN RI									O				12	0.08
GREEN R. NR GREEN RIVER, WYO.									X				12	0.08
GREEN RIVER BELOW GREEN RIVER WYO									X				12	0.08
HENRYS FORK NR MANILA, UT	XX	X	X	X	XX	O	XX	XX		XX			10	1.00
BLACKS FK NR LYMAN WYO	XX	XX	XX	XX		XX		XX	XX	XX	XX	XX	12	1.00
BLACKS FORK RIVER NEAR LITTLE AMERICA WY	XX	XX	XX			X		XX	X	XX	XX	XX	12	0.83
MUDDY CREEK NEAR HAMPTON WYO		XX	XX	X		XX		XX	XX	XX		XX	10	1.00
SMITHS FORK NEAR LYMAN, WY								XX	XX	XX			12	0.42
BITTER CR BEL LITTLE BITTER CR NR WANDA		XX	XX	XX		XX		XX	XX	XX	XX		11	1.00
KILLDEER CREEK AT ROCK SPRINGS WYO			XX	XX		XX		XX	XX	XX	XX	XX	10	1.00
SALT WELLS C NR S BAXTER WY		XX	X					X	XX	X		XX	11	0.74
SALT WELLS CREEK NEAR SALT WELLS WY			XX	XX		XX							4	1.00
BITTER C AB SALT WELLS C NR SALT WELLS W		XX	XX	XX		XX		XX	XX	XX	XX	XX	9	1.00
BITTER CREEK NEAR BITTER CREEK, WYO		X		X	X	X	XX	XX	XX	X	XX	XX	11	0.91
BIG SANDY RIVER BELOW EDEN WYO		XX		XX	XX	XX		XX	XX	XX	XX	XX	11	1.00
BIG SANDY R AT GASSON BRIDGE, NR EDEN,		XX	XX	XX	XX	XX		XX	XX	XX	XX	XX	12	1.00
NORTH PLATTE RIVER NE CASPER WYO				O									11	0.09
N PLATTE R NR GLENROCK WYO				O	X								11	0.18
NORTH PLATTE R. AT ORIN, WYO.					X								12	0.08
NORTH PLATTE RIVER BELOW GLENDO RESERVOI	O												11	0.09
LARAMIE RIVER AT HOWELL, WY							X	X	XX	O			12	0.33
LARAMIE RIVER AT TWO RIVERS, WYO.							X	X	XX	X			12	0.33
MEDICINE BOW R AB SIMINOE RES, NR HANNA,	X	XX	X	X			XX	XX	XX	XX	XX	XX	12	0.83
E MEDICINE BOW R NR MEDICINE BOW WYO		X				X	XX	XX	X	X	XX	XX	11	0.73
SAGE CREEK NEAR SARATOGA, WYO			XX	X		X	XX	XX	XX	XX			8	0.88

01147 SELENIUM

BITTER C AB SALT WELLS C NR SALT WELLS W		X											4	0.25

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
01042 COPPER														
**********														
POWDER RIVER AT SUSSEX, WYO.										XX			2	0.50
L POWDER R UP WESTON WY			XX										3	0.33
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV										XX			4	0.25
SALT WELLS C NR S BAXTER WY				0									4	0.25
BITTER CREEK NEAR BITTER CREEK, WYO				0									4	0.25
ENCAMPMENT RIV AB HOG PARK CR NR ENCAMPM							XX						1	1.00
01051 LEAD														
**********														
POWDER RIVER AT SUSSEX, WYO.										XX			2	0.50
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV										XX			4	0.25
01092 ZINC														
**********														
POWDER RIVER AT SUSSEX, WYO.										XX			2	0.50
01027 CADMIUM														
**********														
POWDER RIVER AT SUSSEX, WYO.										XX			2	0.50
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV										XX			4	0.25

PROCESSING COMPLETE FOR REQUESTED PERIOD

Reproduced from best available copy.

Table 18. Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Beaver Cr nr Newcastle		D		D *							
Belle Fourche R nr Piney		I	D			D		D			
Little Powder R nr Weston		I		D *	I *		D*	D			
Clear Cr at Ucross			I		I *						
Clear Cr nr Arvada				D *		D	D*			D	
Piney Cr at Ucross				D			D	D		D	
Crazy Woman Cr nr Arvada											D Cr Pb Cd*
Crazy Woman Cr nr Arvada											D Pb*
Salt Cr nr Sussex										D	
S Fork Powder R nr Kaycee										D	
Tongue R nr Dayton								I			
Shoshone R nr Lovell			D*								
Whistle Cr nr Garland										D	
Paint Rock Cr nr Mouth										D	
Nowood R at Manderson				D *			D*				
Beaver Cr nr Arapahoe			D*								
Hams Fork nr Diamondville					D		I				
Muddy Cr nr Hampton		D		D *		D	D*				D Hg
Bitter Cr nr Kanda			I*							I	
Killpecker Cr at Rock Springs			D*	I *		D	I*			I	
Bitter Cr nr Bitter Creek		D	D*	I *	D *		D*	I			D Cu Hg
Big Sandy R nr Eden				I *				I			
N Platte R nr Sinclair								I			

Table 18 (continued). Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.
Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
N Platte R at Alcova										I	
N Platte R nr Glenrock										I	
Laramie R nr Ft Laramie							I	I			
Little Laramie at Two Rivers			D								
Sweetwater R nr Alcova							I				
Little Medicine Bow R nr Medicine Bow				D *			D*			D	
Salt R nr Etna			D*								
Cache Cr nr Jackson										I	
Cheyenee R Nr Dull Center				I *							I_{Cd}
Belle Fourche R Abv Dry Creek				D *							
Powder R Nr Kaycee				D *							
Powder R at Arvada				D *							
Bighorn R at Kane				D *							
Shoshone R Nr Cody	D			D							
Little Wind R Nr Riverton				I *							
Green R Nr LaBarge						D					
Green R Nr Green River	D										
Salt Wells Cr				I *							
N Platte R at Mills				I							
N Platte R at Casper				I	I *						
N Platte R blw Casper	I *	I		I							

APPENDIX

State Water Quality Standards or Other Criteria Used in the Stream Quality Analysis

EPA WATER QUALITY CRITERIA

Legend of Symbols Used in the Following Table

*	Guideline only
(1)	Green Book
(2)	Blue Book
(3)	Red Book
(4)	Primary Drinking Water Regulation
(5)	Secondary Drinking Water Regulation
(6)	March 15, 1979, Federal Register
(7)	July 25, 1979, Federal Register
(8)	October 1, 1979, Federal Register
(9)	Willingham, W.T. - EPA

Preceding page blank

EPA Water Quality Criteria

STORET CODE	PARAMETER	AQUATIC LIFE	DRINKING WATER	PRIMARY CONTACT RECREATION
00010	Temperature Deg Cent	Variable * (1) 20° C max. cold water 32° C max. warm water	NA	NA
00070	Turbidity JTU	Variable * (1) 10 - 50	NA	NA
00095	Conductivity µmhos/cm	NA	NA	NA
00300	Dissolved Oxygen mg/L	5.0 (3) min.	NA	NA
00400	pH SU	6.5 - 9.0 (3)	5.0 - 9.0 (3)	6.5 - 8.3 * (2)
00550	Oil & Grease Tot - Salt mg/L	0.01 x 96 hr LC_{50} (3) 0.01 * (3)	Free from (1)	Free from (1)
00610	Un-Ionized Ammonia mg/L	0.02 (3)	NA	NA
00610	Total Ammonia mg/L	NA	0.5 * (2)	NA
00620	Total Nitrate mg/L	NA	10 (4)	NA
00615	Total Nitrate mg/L	0.06 - 0.6 * (9)	1.0 * (2)	NA
00630	Total Nitrate + Nitrite mg/L	NA	10.0 (4)	NA
00640	Total Soluble Inorganic N mg/L	Variable 0.1 - 1.0 * (9)	NA	Variable 0.1 - 1.0 * (9)
00665	Total Phosphorus mg/L	Variable 0.01 - 0.1 * (1,2,3)	NA	Variable 0.01 - 0.1 * (1,2,3)
00720	Total Cyanide mg/L	0.005 (3)	0.2 * (2,7)	NA
00940	Chloride mg/L	NA	250 (5)	NA
00945	Sulfate mg/L	NA	250 (5)	NA
00951	Flouride mg/L	NA	1.4 - 2.4 (4) depends on avg. air temp.	NA
01002	Total recov. Arsenic µg/L	57 - 24hr avg. (6) 130 - max	0.05 (4)	NA
01007	Total recov. Barium µg/L	NA	1000	NA
01012	Total recov. Beryllium µg/L	$e^{(1.24 \ln (HARD)-4.32)}$ (6)	0.087 - 0.00087 (6)	NA
01022	Total recov. Boron µg/L	NA	NA	NA
01027	Total recov. Cadmium µg/L	$e^{(1.31 \ln (HARD)-3.92)}$max	10	NA
01033	Trivalent Chromium µg/L	$e^{(0.83 \ln (HARD)+3.72)}$ max	NA	NA
01034	Total recov. Chromium µg/L	100 (3)	50 (3)	NA
01042	Total recov. Copper µg/L	$e^{(0.88 \ln (HARD)-1.03)}$ max (7)	1000 (5)	NA
01045	Total recov. Iron µg/L	1000	NA	NA
01046	Dissolved Iron µg/L	NA	300 (5)	NA
01051	Total recov. Lead µg/L	$e^{(1.51 \ln (HARD)-1.39}$ max (6)	50 (4)	NA
01055	Total recov. Manganese µg/L	NA	50 (5)	NA
01067	Total recov. Nickel µg/L	$e^{(0.47 \ln (HARD)+4.19)}$ max (7)	NA	NA
01077	Total recov. Silver µg/L	1.9 max (6)	50 (4)	NA
	Total Inorganic Mercury µg/L	3.2 max (8)	0.2 (7)	NA
	Methyl Mercury µg/L	8.8 max	NA	NA
01092	Total recov. Zinc µg/L	$e^{(0.64 \ln (HARD)+2.46)}$ max (7)	5000 (5)	NA
01147	Total recov. Selenium µg/L	22 max (6)	10 (4)	NA
31614	Fecal Coliform mpn #/100 ml	NA	NA	200 30-day geo. mean 400 7-day geo. mean (3)
32730	Total Phenols µg/L	1 (3)	1 (3)	NA
50060	Total residual Chlorine µg/L	2 coldwater 10 warmwater (3)	NA	NA
70300	Dissolved Residue @180°C	NA	500 (5)	NA
00530 70299 80154	Suspended Solids mg/l	30		

STORET CODE	PARAMETER	SECONDARY CONTACT RECREATION	LIVESTOCK WATERING	IRRIGATION
00010	Temperature Deg Cent	NA	NA	NA
00078	Turbidity JTU	NA	NA	NA
00095	Conductivity µmhos/cm	NA	NA	Variable * (2) <500 to >3000
00300	Dissolved Oxygen mg/L	NA	NA	NA
00400	pH SU	NA	NA	4.5 - 9.0 * (2)
00550	Oil & Grease Tot - Salt mg/L	Free from (1)	Free from (1)	Free from (1)
00619	Un-Ionized Ammonia mg/L	NA	NA	NA
00610	Total Ammonia mg/L	NA	NA	NA
00620	Total Nitrate mg/L	NA	NA	NA
00615	Total Nitrite mg/L	NA	10.0 * (2)	NA
00630	Total Nitrate + Nitrite mg/L	NA	100.0 * (2)	NA
00640	Total Soluble Inorganic N mg/L	NA	NA	NA
00665	Total Phosphorus mg/L	NA	NA	NA
00720	Total Cyanide mg/L	NA	NA	NA
00940	Chloride mg/L	NA	NA	Variable * (2) <3 to 29 meq/L
00945	Sulfate mg/L	NA	NA	NA
00951	Fluoride mg/L	NA	NA	Variable * (2) 1.0 - 15.0
01002	Total recov. Arsenic µg/L	NA	200 * (2)	100 (3)
01007	Total recov. Barium µg/L	NA	NA	NA
01012	Total recov. Beryllium µg/L	NA	NA	Variable (3) 50 - 100
01022	Total recov. Boron µg/L	NA	5000 * (2)	750 (3)
01027	Total recov. Cadmium µg/L	NA	50 * (2)	Variable 10 - 50 * (2)
01033	Trivalent Chromium µg/L	NA	NA	NA
01034	Total recov. Chromium µg/L	NA		Variable 100 - 1000 * (2)
01042	Total recov. Copper µg/L	NA	500 * (2)	Variable 200 - 5000 * (2)
01045	Total recov. Iron µg/L	NA	NA	Variable 5000 - 20000 * (2)
01046	Dissolved Iron µg/L	NA	NA	NA
01051	Total recov. Lead µg/L	NA	100 * (2)	Variable 5000 - 10000 * (2)
01055	Total recov. Manganese µg/L	NA	NA	Variable 200 - 1000 * (2)
01067	Total recov. Nickel µg/L	NA	NA	Variable 200 - 2000 * (2)
01077	Total recov. Silver µg/L	NA	NA	NA
	Total Inorganic Mercury µg/L	NA	10 * (2)	NA
	Methyl Mercury µg/L	NA	NA	NA
01092	Total recov. Zinc µg/L	NA	25000 * (2)	Variable 2000 - 10000 * (2)
01147	Total recov. Selenium µg/L	NA	50 * (2)	20 * (2)
31614	Fecal Coliform mpn #/100 ml	1000 30-day geo. mean 2000 7-day geo. mean (2)	NA	1000 max * (2)
32730	Total Phenols µg/L	NA	NA	NA
50060	Total residual Chlorine µg/L	NA	NA	NA
70300	Dissolved Residue @180°C	NA	Variable to 10000 * (2)	Variable to 10000 * (2)
00530 70299 80154	Suspended Solids mg/l			

COLORADO

Water Quality Standards

Stream Segment Classifications

Classification	Description	EPA Region 8 Segment Code
A1	Contact recreation, cold water fishery	15
A2	Contact recreation, warm water fishery	16
B1	No contact recreation, cold water fishery	17
B2	No contact recreation, warm water fishery	18

COLORADO

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Classification			
		A1	A2	B1	B2
1. D.O.	00300	6	5	6	5
2. Fecal Colif.	31616	200	200	1000	1000
3. Fecal Colif.	31615	200	200	1000	1000
4. Fecal Colif.	31625	200	200	1000	1000
5. Total Colif.	31501	2000	2000	10000	10000
6. Total Colif.	31505	2000	2000	10000	10000
7. Total Nitrite-N	00615	.5	.5	.5	.5
8. Total Nitrogen	00600	10	10	10	10
9. Total Nitrate-N	00620	10	10	10	10
10. Total Nitrate-N	00630	10	10	10	10
11. Total NO_3 - NO_3	71850 1/	10	10	10	10
12. Total PO_4 - P	00665	.1	.1	.1	.1
13. Total PO_4 - PO_4	00650 2/	.1	.1	.1	.1
14. Total PO_4 - P	70505	.1	.1	.1	.1
15. TDS	00515	500	500	500	500
16. TDS	70300	500	500	500	500
17. TDS	70301	500	500	500	500
18. TDS	70295	500	500	500	500
19. Conductivity	00095	833	833	833	833
20. Turbidity	00070	25	25	25	25
21. Susp. Solids	00530	90	90	90	90
22. Susp. Solids	70299	90	90	90	90
23. Susp. Solids	80154	90	90	90	90
24. Chloride	00940	250	250	250	250
25. Sulfate	00945	250	250	250	250
26. Unionized NH_3	00619	.02	.02	.02	.02
27. NH_3 - NH_4 -N	00608	.02	.02	.02	.02
28. NH_3 - NH_4 -N	00610	.02	.02	.02	.02
29. Cyanide	00720	.005	.005	.005	.005
30. Arsenic	1002	130	130	130	130
31. Total Chromium	1034	100	100	100	100
32. Total Selenium	1147	22	22	22	22
33. Mercury	71900	3.2	3.2	3.2	3.2

1/ Observed concentration multiplied by 0.226.

2/ Observed concentration multiplied by 0.326.

MONTANA

Water Quality Standards

Stream Segment Classifications

Classification		Description	EPA Region 8 Segment Code
A	A closed	Domestic use, access restricted	26
A-1	A open D1	Domestic use after treatment by simple disinfection, normal access	27
B-1	B-D1	Domestic use after treatment, salmonid fish propagation	28
B-2	B-D2	Domestic use after treatment, marginal salmonid fish propagation	29
B-3	B-D3	Domestic use after treatment, nonsalmonid fish propagation	30
C-1	C-D1	Contact recreation, salmonid fish propagation	31
C-2	C-D2	Contact recreation, marginal salmonid fish propagation	32
C-3		Contact recreation, nonsalmonid fish propagation	33
E	E-F	Agriculture and Industry	34

MONTANA

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Segment Classification 1/								
		A	A-1	B-1	B-2	B-3	C-1	C-2	C-3	E
1. D.O.	00300	5	7	7	6	5	7	5	5	3
2. Fecal Colif.	31616	50	50	200	200	200	200	200	200	200
3. Fecal Colif.	31615	50	50	200	200	200	200	200	200	200
4. Fecal Colif.	31625	50	50	200	200	200	200	200	200	200
5. Total Colif.	31501	50	50	2000	2000	2000	2000	2000	2000	2000
6. Total Colif.	31505	50	50	2000	2000	2000	2000	2000	2000	2000
7. Total Nitrite-N	00615	1	1	.05	.05	.5	.5	.5	.5	1
8. Total Nitrogen	00600	10	10	1	1	1	1	1	1	1
9. Total Nitrate-N	00620	10	10	1	1	1	1	1	1	1
10. Total Nitrite Nitrate	00630	10	10	1	1	1	1	1	1	1
11. Total NO_3 - NO_3	71850 2/	10	10	1	1	1	1	1	1	1
12. Total PO_4 - P	00665 3/	.1	.1	.1	.1	.1	.1	.1	.1	.1
13. Total PO_4 - PO_4	00650 3/	.1	.1	.1	.1	.1	.1	.1	.1	.1
14. Total PO_4 - P	70505	.1	.1	.1	.1	.1	.1	.1	.1	.1
15. TDS	00515	500	500	500	500	500	500	500	500	500
16. TDS	70300	500	500	500	500	500	500	500	500	500
17. TDS	70301	500	500	500	500	500	500	500	500	500
18. TDS	70295	500	500	500	500	500	500	500	500	500
19. Conductivity	00095	833	833	833	833	833	833	833	833	833
20. Turbidity	00070	25	25	25	25	25	25	25	25	25
21. Susp. Solids	00530	90	90	30	90	90	30	90	90	150
22. Susp. Solids	70299	90	90	30	90	90	30	90	90	150
23. Susp. Solids	80154	90	90	30	90	90	30	90	90	150
24. Chloride	00940	250	250	250	250	250	250	250	250	250
25. Sulfate	00945	250	250	250	250	250	250	250	250	250
26. Unionized NH_3	00619	.02	.02	.02	.02	.02	.02	.02	.02	.02
27. NH_3 + NH_4 -N	00608	.02	.02	.02	.02	.02	.02	.02	.02	.02
28. NH_3 + NH_4 -N	00610	.02	.02	.02	.02	.02	.02	.02	.02	.02
29. Cyanide	00720	.2	.2	.005	.005	.005	.005	.005	.005	.2
30. Arsenic	1002	.05	.05	130	130	130	130	130	130	130
31. Total Chromium	1034	50	50	100	100	100	100	100	100	100
32. Total Selenium	1147	10	10	22	22	22	22	22	22	20
33. Mercury	71900	.2	.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

1/ Refer to the next sheet for descriptions of classifications

2/ Observed concentration multiplied by 0.226.

3/ Observed concentration multiplied by 0.326.

NORTH DAKOTA

Water Quality Standards

Stream Segment Classifications

Classification	Description	EPA Region 8 Segment Code
I	Resident fish specie propagation; contact recreation; domestic use after simple treatment; irrigation, stock-watering, and wildlife use.	39
IA	Similar to Class I except softening may be required for domestic use.	40
II	Similar to class I except additional treatment may be required for domestic use.	41
III	Industrial and agricultural uses.	42

NORTH DAKOTA

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Classification			
		I	IA	II	III
1. D.O.	00300	5	5	5	5
2. Fecal Colif.	31616	200	200	200	200
3. Fecal Colif.	31615	200	200	200	200
4. Fecal Colif.	31625	200	200	200	200
5. Total Colif.	31501	2000	2000	2000	2000
6. Total Colif.	31505	2000	2000	2000	2000
7. Total Nitrite-N	00615	.5	.5	.5	.5
8. Total Nitrogen	00600	1	1	1.5	1.5
9. Total Nitrate N	00620	1	1	1.5	1.5
10. Total Nitrate N	00630	1	1	1.5	1.5
11. Total NO_3 - NO_3	71850 1/	1	1	1.5	1.5
12. Total PO_4 - P	00665	.1	.1	.2	.2
13. Total PO_4 - PO_4	00650 2/	.1	.1	.2	.2
14. Total PO_4 - P	70505	.1	.1	.2	.2
15. TDS	00515	500	500	500	500
16. TDS	70300	500	500	500	500
17. TDS	70301	500	500	500	500
18. TDS	70295	500	500	500	500
19. Conductivity	00095	833	833	833	833
20. Turbidity	00070	25	25	25	25
21. Susp. Solids	00530	90	90	90	90
22. Susp. Solids	70299	90	90	90	90
23. Susp. Solids	80154	90	90	90	90
24. Chloride	00940	100	175	250	250
25. Sulfate	00945	250	450	450	750
26. Unionized NH_3	00619	.02	.02	.02	.1
27. NH_3 + NO_4 -N	00608	.02	.02	.02	.1
28. NH_3 + NO_4 -N	00610	.02	.02	.02	.1
29. Cyanide	00720	.005	.005	.005	.1
30. Arsenic	1002	50	50	50	100
31. Total Chromium	1034	50	50	50	50
32. Total Selenium	1147	10	10	10	10
33. Mercury	71900	2	2	2	2

1/ Observed concentration multiplied by 0.226.

2/ Observed concentration multiplied by 0.326.

SOUTH DAKOTA

Water Quality Standards

Stream segment classifications are made up of Uses #9 and 10 and combinations of uses listed below:

Use Group	Description
1.	Domestic water supply waters.
2.	Cold water permanent fish life propagation waters.
3.	Cold water marginal fish life propagation waters.
4.	Warm water permanent fish life propagation waters.
5.	Warm water semipermanent fish life propagation waters.
6.	Warm water marginal fish life propagation waters.
7.	Immersion recreation waters.
8.	Limited contact recreation waters.
9.	Wild life propagation and stock watering waters.
10.	Irrigation waters.
11.	Commerce and Industrial waters.

SOUTH DAKOTA

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Segment Classifications And Uses 1/												
		1 1,5,8	2 3,8	3 6,8	4 5,7,8	5 1,2,7,8	6 2,8	7 4,7,8	8 4,8	9 3,7,8	10 2,7,8	11 1,3,8	12 1,4,7,8	13 9,10
1. D.O.	00300	5	5	5	5	5	5	5	5	5	5	5	5	5
2. Fecal Colif.	31616	1000	1000	1000	200	200	1000	200	1000	200	200	1000	200	1000
3. Fecal Colif.	31615	1000	1000	1000	200	200	1000	200	1000	200	200	1000	200	1000
4. Fecal Colif.	31625	1000	1000	1000	200	200	1000	200	1000	200	200	1000	200	1000
5. Total Colif.	31501	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
6. Total Colif.	31505	5000	5000	5000	5000	5000	5000	5000	5000					
7. Total Nitrite-N	00615	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
8. Total Nitrogen	00600	10	50	50	50	10	50	50	50	50	50	10	10	50
9. Total Nitrate-N	00620	10	50	50	50	10	50	50	50	50	50	10	10	50
10. Tot. Nitrite Nitrate-N	00630	10	50	50	50	10	50	50	50	50	50	10	10	50
11. Tot. NO_3 - NO_3 2/	71850	10	50	50	50	10	50	50	50	50	50	10	10	50
12. Tot. PO_4 - P 3/	00665	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
13. Tot. PO_4 - PO_4	00650	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
14. Tot. PO_4 - P	70505	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
15. TDS	00515	1000	5000	5000	5000	1000	5000	5000	5000	5000	5000	1000	1000	5000
16. TDS	70300	1000	5000	5000	5000	1000	5000	5000	5000	5000	5000	1000	1000	5000
17. TDS	70301	1000	5000	5000	5000	1000	5000	5000	5000	5000	5000	1000	1000	5000
18. TDS	70295	1000	5000	5000	5000	1000	5000	5000	5000	5000	5000	1000	1000	5000
19. Conductivity	00095	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
20. Turbidity	00070	25	25	25	25	25	25	25	25	25	25	25	25	25
21. Susp. Solids	00530	90	90	150	90	30	30	90	90	90	30	90	90	90
22. Susp. Solids	70299	90	90	150	90	30	30	90	90	90	30	90	90	90
23. Susp. Solids	80154	90	90	150	90	30	30	90	90	90	30	90	90	90
24. Chloride	00940	250	250	250	250	100	100	250	250	250	100	250	250	250
25. Sulfate	00945	500	500	500	500	500	500	500	500	500	500	500	500	500
26. Unionized NH_3	00619	.04	.02	.05	.04	.02	.02	.04	.04	.02	.02	.02	.04	.05
27. NH_3 + NH_4 -N	00608	.04	.02	.05	.04	.02	.02	.04	.04	.02	.02	.02	.04	.05
28. NH_3 + NH_4 -N	00610	.04	.02	.05	.04	.02	.02	.04	.04	.02	.02	.02	.04	.05
29. Cyanide	00720	20	20	20	20	20	20	20	20	20	20	20	20	20
30. Arsenic	1002	50	50	50	50	50	50	50	50	50	50	50	50	50
31. Total Chromium	1034	50	100	100	100	50	100	100	100	100	100	50	50	100
32. Total Selenium	1147	10	10	10	10	10	10	10	10	10	10	10	10	10
33. Mercury	71900	.2	3.2	3.2	3.2	0.2	3.2	3.2	3.2	3.2	3.2	0.2	0.2	3.2
34. Copper	1042	.88												
35. Lead	1051	1.51												
36. Zinc	1092	0.64												
37. Cadmium	1027	1.31												
38. Chromium +++	1033	0.83												
39. Nickel	1067	0.47												
40. pH	00400	6.3	6.5	6.0	6.5	6.5	6.6	6.5	6.5	6.5	6.5	6.5	6.5	6.0
41. Hardness														
42. Temp. °C														
43. Temp. °F														

1/ Refer to the next sheet for description of uses

2/ Observed concentration multiplied by 0.226 for compatability in parameter category

3/ Observed concentration multiplied by 0.326 for compatability in parameter category

UTAH

Water Quality Standards

Stream Segment Classifications

Classification	Description	EPA Region 8 Segment Code
1C	Domestic supply with treatment	19
2B	Limited contact recreation	20
3A	Cold water game fisheries	21
3B	Warm water game fisheries	22
3C	Nongame fisheries	23
3D	Water oriented wild life use	24
4	Agriculture use	25

UTAH

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Classification						
		1C	2B	3A	3B	3C	3D	4
1. D.O.	00300	5.5	5.5	6.0	5.5	4.0	5.5	2.0
2. Fecal Colif.	31616	2000	200	200	200	200	2000	2000
3. Fecal Colif.	31615	2000	200	200	200	200	2000	2000
4. Fecal Colif.	31625	2000	200	200	200	200	2000	2000
5. Total Colif.	31501	5000	5000	5000	5000	5000	5000	5000
6. Total Colif.	31505	5000	5000	5000	5000	5000	5000	5000
7. Total Nitrite-N	00615	1.0	1.0	.05	0.5	0.5	0.5	0.5
8. Total Nitrogen	00600	10	4	4	4	4	4	4
9. Total Nitrate N	00620	10	4	4	4	4	4	4
10. Total Nitrate N	00630	10	4	4	4	4	4	4
11. Total NO_3 - NO_3	71850 1/	10	4	4	4	4	4	4
12. Total PO_4 - P	00665	.05	.05	.05	.05	.5	.05	.05
13. Total PO_4 - PO_4	00650 2/	.05	.05	.05	.05	.5	.05	.05
14. Total PO_4 - P	70505	.05	.05	.05	.05	.5	.05	.05
15. TDS	00515	500	500	500	500	500	500	1200
16. TDS	70300	500	500	500	500	500	500	1200
17. TDS	70301	500	500	500	500	500	500	1200
18. TDS	70295	50	50	50	50	50	50	1200
19. Conductivity	00095	8.33	8.33	8.33	8.33	8.33	8.33	8.33
20. Turbidity	00070	25	25	25	25	25	25	25
21. Susp. Solids	00530	90	90	90	90	90	90	90
22. Susp. Solids	70299	90	90	90	90	90	90	90
23. Susp. Solids	80154	90	90	90	90	90	90	90
24. Chloride	00940	250	250	250	250	250	250	250
25. Sulfate	00945	250	250	250	250	250	250	250
26. Unionized NH_3	00619	.02	.02	.02	.02	.02	.02	.02
27. NH_3 + NO_4 -N	00608	.02	.02	.02	.02	.02	.02	.02
28. NH + NO -N	00610	.02	.02	.02	.02	.02	.02	.02
29. Cyanide	00720	.005	.005	.005	.005	.005	.005	.005
30. Arsenic	01002	130	130	130	130	130	130	130
31. Total Chromium	01034	100	100	100	100	100	100	100
32. Total Selenium	01147	22	22	22	22	22	22	22
33. Mercury	71900	2	.05	.05	.05	.05	2	2

1/ Observed concentration multiplied by 0.226.

2/ Observed concentration multiplied by 0.326.

WYOMING

Water Quality Standards

Stream Segment Classifications

Classification	Description	EPA Region 8 Segment Code
I	Nondegradation segment	35
II	Game fish propagation	36
III	Nongame fish propagation	37
IV	Unsuitable for fish propagation	38

WYOMING

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Classification			
		I	II	III	IV
1. D.O.	00300	6	6	5	2
2. Fecal Colif.	31616	1000	1000	1000	200
3. Fecal Colif.	31615	1000	1000	1000	200
4. Fecal Colif.	31625	1000	1000	1000	200
5. Total Colif.	31501	1000	1000	1000	200
6. Total Colif.	31505	1000	1000	1000	200
7. Total Nitrite-N	00615	.5	.5	.5	10
8. Total Nitrogen	00600	10	10	10	10
9. Total Nitrate N	00620	10	10	10	10
10. Total Nitrite N	00630	10	10	10	100
11. Total NO_3 - NO_3	71850 1/	10	10	10	10
12. Total PO_4 - P	00665	.1	.1	.1	.1
13. Total PO_4 - PO_4	00650 2/	.1	.1	.1	.1
14. Total PO_4 - P	70505	.1	.1	.1	.1
15. TDS	00515	500	500	500	500
16. TDS	70300	500	500	500	500
17. TDS	70301	500	500	500	500
18. TDS	70295	500	500	500	500
19. Conductivity	00095	833	833	833	833
20. Turbidity	00070	25	25	25	25
21. Susp. Solids	00530	30	30	90	90
22. Susp. Solids	70299	30	30	90	90
23. Susp. Solids	80154	30	30	90	90
24. Chloride	00940	250	250	250	250
25. Sulfate	00945	250	250	250	250
26. Unionized NH_3	00619	.02	.02	.02	.02
27. NH_3 + NH_4 -N	00608	.02	.02	.02	.02
28. NH_3 + NH_4 -N	00610	.02	.02	.02	.02
29. Cyanide	00720	.005	.005	.005	.005
30. Arsenic	1002	130	130	130	130
31. Total Chromium	1034	100	100	100	100
32. Total Selenium	1147	22	22	22	22
33. Mercury	71900	3.2	3.2	3.2	3.2

1/ Observed concentration multiplied by 0.226.

2/ Observed concentration multiplied by 0.326.